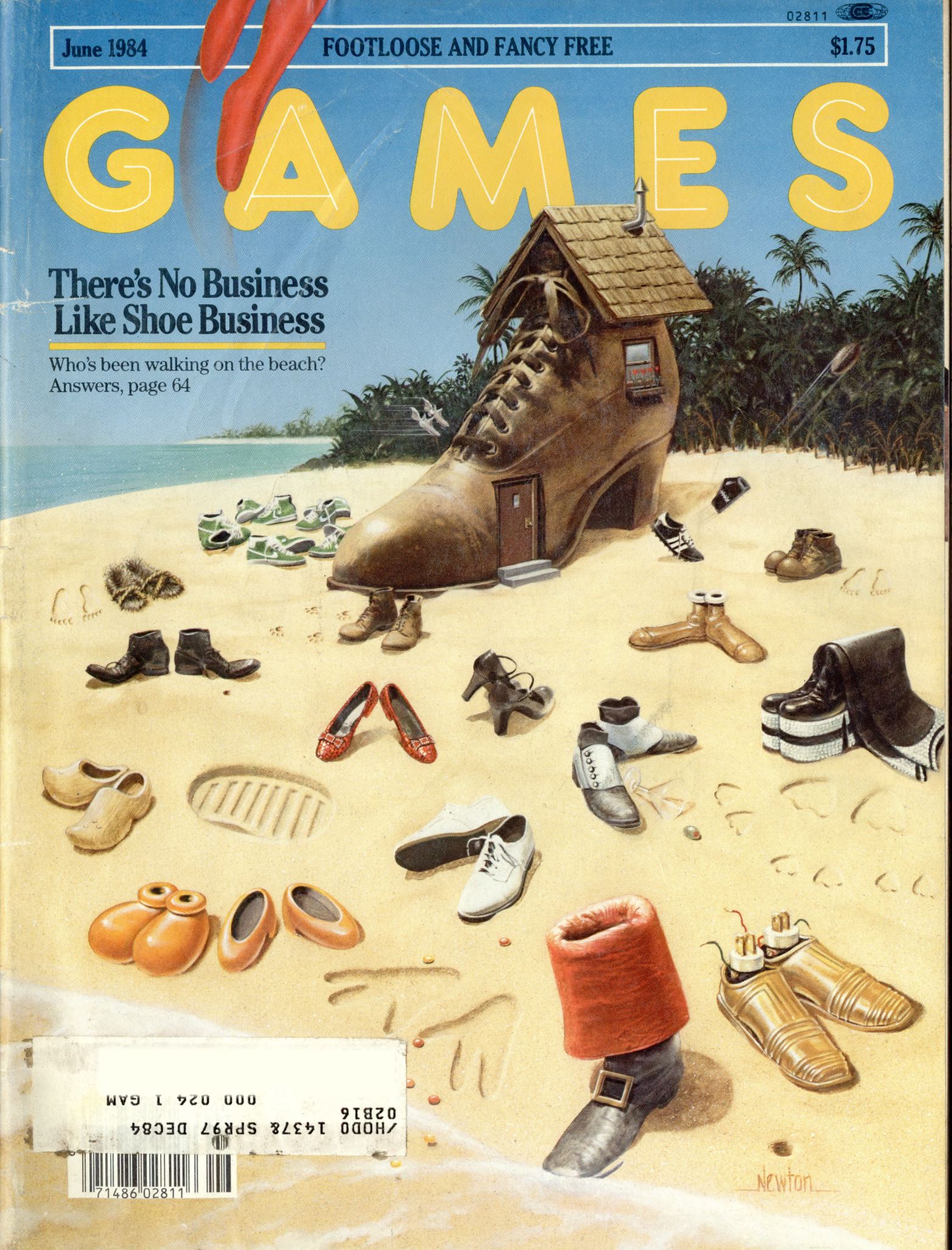
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June 1984 FOOTLOOSE AND FANCY FREE $1.75

GAMES

There's No Business Like Shoe Business

Who's been walking on the beach?
Answers, page 64



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PLAYERS GO PLACES

Low Tar Players.

Regular and Menthol
Kings and 100's



Kings: 12 mg "tar," 1.0 mg nicotine—100's: 14 mg "tar," 1.1 mg nicotine av. per cigarette, by FTC method.

Warning: The Surgeon General Has Determined That Cigarette Smoking Is Dangerous to Your Health.

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JUNE 1984

GAMES

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Cover Illustration Richard Newton **Puzzle** Stephanie A. Spadaccini

YOUR MOVE

Edited by Burt Hochberg

Simple Addition ★

Add up the numbers below by reading each new total aloud, like this: one thousand, one thousand ten, two thousand thirty, etc. Do *not* add by totaling the individual columns in the usual way. Does your total agree with ours?

1000
10
1020
10
1030
10
1010
10

George Davis
Moose Jaw, Saskatchewan

Triplets ★☆

There are 24 combinations of three consecutive letters of the alphabet (ABC, BCD, CDE . . . XYZ). How many such combinations occur intact in common English words? My husband and I have found words featuring nine different combinations. Can anyone top this score?

ABC	IJK	QRS
BCD	JKL	RST
CDE	KLM	STU
DEF	LMN	TUV
EFG	MNO	UVW
FGH	NOP	VWX
GHI	OPQ	WXY
HIJ	PQR	XYZ

Harriet T. Rosenberg
Danby, VT

A Boxing Lesson ★★

Tomorrow is your 13th birthday. Your father has promised to give you 13 silver dollars if, by then, you have figured out a way to place those 13 coins in four boxes so that each box contains an odd number of coins. Furthermore, he's promised you an extra 13 bucks for each additional solution you show him. How much do you figure to collect tomorrow?

Lou Cortina
Pomona, CA

Preposition Proposition ★☆

A little girl, ready for a story at bedtime, complained to her mother about the storybook: "What did you bring that book that I didn't want to be read to out of up for?"

Although purists frown on ending a sentence with a preposition, this little girl ended hers with five of them. How many prepositions can readers end an otherwise grammatical sentence with?

Vicky Edwards Gehrt
Villa Park, IL

Your Move, c/o GAMES, and July 2, 1984, are the place and date your efforts should be sent to by. A GAMES T-shirt for the longest good one.—Ed.

Name Change Operations ★☆

Like many people, some countries have had occasion to change their names. Can you match the original country names (1–8) with their current ones (a–h)?

1. Abyssinia	a. Zaire
2. The Congo	b. Bangladesh
3. Ceylon	c. Ghana
4. Chosen	d. France
5. East Pakistan	e. Ethiopia
6. Gaul	f. Sri Lanka
7. Gold Coast	g. Iraq
8. Mesopotamia	h. Korea

Richard A. Schutz
Philadelphia, PA

Forth and Back ★★★

Some words, *reading both forward and backward*, can be broken down into valid smaller words (at least three letters long) by dropping one letter at a time from either end.

The word SPANS, for example, produces PANS, SPAN, SPA, and PAN reading forward; SNAPS, NAPS, SNAP, and NAP reading backward. Counting 1 point per letter, the total score for this word is 35.

That's the highest score we've achieved for a five-letter word. What's the highest score you can figure out for a six-letter word? (You'll find our best try in the Answer Drawer).

Henry Nussbacher
Rechovot, Israel

Answer Drawer, page 58

Your Move is an occasional column of comments and original puzzles by readers. We pay $15 and up for each item published. Manuscripts may be edited for clarity, and none can be returned unless accompanied by a stamped, self-addressed envelope.

GAMES

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LETTERS

Whence "Dusty Miller"?

Your article on the origins of colorful hash-house slang ("Lunch Counter Lingo," March, page 18) was great! The author, Stuart Berg Flexner, said that "no one is quite sure why" a chocolate sundae with malt sprinkled on top is called a "Dusty Miller." Here's one possibility: A worker in a flour mill (a miller) would be powdered with a fine dust, very much like the top of the sundae.

Ann Jacobs
New York, NY

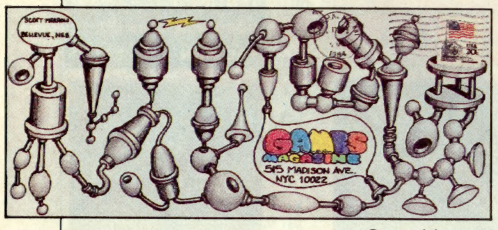
Dusty Miller is a plant with pale green foliage overlaid with what appears to be a sprinkling of flour. The dusting of malt on a sundae might well have looked like this to a cook familiar with gardening (during those days when America was still fairly agrarian).

Polly Holt
Boulder, CO

"Dusty Miller" is a traditional Scottish dance, but songs by that name are often played by American bluegrass fiddlers. The cook who first noticed the "dusting" of malt on a sundae was probably reminded of the song title.

Valerie Jean Wilcox
North Babylon, NY

Envelope of the Month



Scott Merrow
Bellevue, NE

Cover Story (cont.)

Regarding the problem of address labels covering up portions of your cover puzzles: I've found that by setting a hair dryer on "high" and aiming it at the cover, the offending label will peel off easily after a few seconds.

Ronnie Mallory
Milford, CT

Other readers suggested trying a few drops of lighter fluid.—Ed.

Double Oh!

How about doing a James Bond puzzle? I am a big 007 fan, and I'd love to see a trivia quiz based on the Bond books and movies.

Patrick Dugan
Natick, MA

For Your Eyes Only: See "From Bond With Love," page 20.—Ed.

Is This a Letter?

Did I enjoy the game "Verbal Tennis" (Wild Cards, March, page 59), where the object is to hold a conversation using only questions? How could I not? Would you like to know something else? Did you realize four people can play? (Don't we call that "doubles" in tennis?) And isn't having an "odd" fifth person the perfect opportunity for employing a "Line Judge"?

Dory Coe
Tinton Falls, NJ

Pranks a Lot

In the Answer Drawer to Martin Gardner's article "Practical Jokes" (April, page 68), you wrote that "Calvin Coolidge, popularly known as 'Old Stone Face,' probably never pulled a prank in his life." Well, the joke's on you. Firstly, Coolidge was our 30th President, not the 29th, as stated. Also, in his recent book *Modern Times*, historian Paul Johnson writes that Coolidge's stone face concealed a lively sense of humor. He was known to press all the buttons on his intercom at once, then hide beneath his desk as dozens of worried secretaries and aides rushed into the Oval Office. His gruff exterior shows that he was merely abiding by the practical joker's unbreakable rule: Always keep a straight face.

Thomas Conklin
New York, NY

I'm surprised that your "Practical Jokes" article didn't even mention the High Commissioner of Practical Jokery, H. Allen Smith. His book *The Compleat Practical Joker* includes what is for me the best practical joke of all time. Apparently, a young man and his brother found out that their neighbors had gone on vacation. They proceeded to wire several bushels of apples onto the neighbors' cherry tree, and then watched as the returning vacationers called the entire neighborhood over to behold the miracle.

Don Gordon
Newark, DE

The Name Game

Lately I've been noticing a proliferation of pun names in your magazine—for instance, an "Eye Exam" by Dr. Seymour D. Tayle (February, page 32) and a color version of Wacky Wordies by Manny Hughes (April, page 49). They're terrible. Keep them coming.

A. Cora Spondent
Penna, ME

Is the author of "Eye Exam" really Dr. Seymour D. Tayle? And is the artist for "Drawn & Quartered" (February, page 44) really Peter de Sève?

Philip Christofferson
St. Louis, MO

No and yes.—Ed.

Asking For a Date

Having read the results of the Nationwide Scavenger Hunt (Contest Results, April, page 60), I was surprised to learn that there would be a full moon this year on Friday, July 13. I've looked at three calendars and one almanac, which all say the full moon is on the 12th. Is this the work of a lunatic?

Lucia T. Brown
Litchfield, CT

The full moon will appear over the U.S. late in the evening of the 12th. Calendars based on local time show it on the 12th, but those based on Greenwich Mean Time show it on the 13th. Calendars in our office show both dates. All the calendars we gave contest credit for were legitimate. — Ed.

Spirited Debate

I was tremendously upset with the article "College Spirits" (Gamebits, March, page 12), which seemed to condone underage drinking. Since two of the three schools mentioned are in Pennsylvania, where the minimum drinking age is 21, and since most college students are below that age, I assume you don't see anything seriously wrong with "games" like "Beer Pong." Young adults may incorrectly feel after such games that they're capable of responsibly handling a car. Perhaps some accidents could be avoided by refusing to condone these types of games.

Theresa Roke
Glen Lyon, PA

LAUNDRY

If a reader finds a significant error of fact or a mistake that affects the play of a game, and if we agree the slip needs to be laundered, we'll print the first or best letter and send the writer a GAMES T-shirt.

Mistakes: April

★ In the letter "Rhyme Scheme" (page 6), you printed a poem that serves as a mnemonic device for the irrational number pi. The eighth word in the verse is *rhymes*, which has six letters, and thus pi is 3.1415926 . . ., not 3.1415927 . . ., as stated in the Answer Drawer.

John D. Dwyer
Fanwood, NJ

★ The Beach Boys had "Fun, Fun, Fun" in a T-bird, and sang about several other cars too, but the answer to 73-Across in your puzzle "Origamania" (page 31) was GTO, a song recorded not by the Beach Boys as clued, but by Ronny and the Daytonas.

Gerald Schumacher
Villa Park, IL

As a pupil of anatomy, I was surprised to see clue 70-Down, which reads "Opening behind the lens." Your answer, PUPIL, is an opening in front of the lens.

Ira H. Haber
Silver Spring, MD

EVENTS

If you plan to attend any of these events, write or call to check entry fees, dates, sites, eligibility, etc. Include a stamped, self-addressed envelope with your request. If you know of other events suitable for this column, write to Events, c/o GAMES.

Ballooning More than 100 fliers will compete in three major events at the annual Wisconsin Dells Balloon Rally, June 2–3. Scores may be applied toward the National Championship, August 3–12 at Indianola, Iowa. Contact: John Dixon, Box 27, Wisconsin Dells, WI 53965, or call (608) 254-8751.

Bridge Vacationers and enthusiasts can earn master points at the Fifth Annual Mexican Bridge Fiesta, June 18–24, at the Camino Real Hotel in Ixtapa, Mexico. Forms of play change daily. Contact Bob Norwood, 5508 Ridge Oak, Austin, TX 78731.

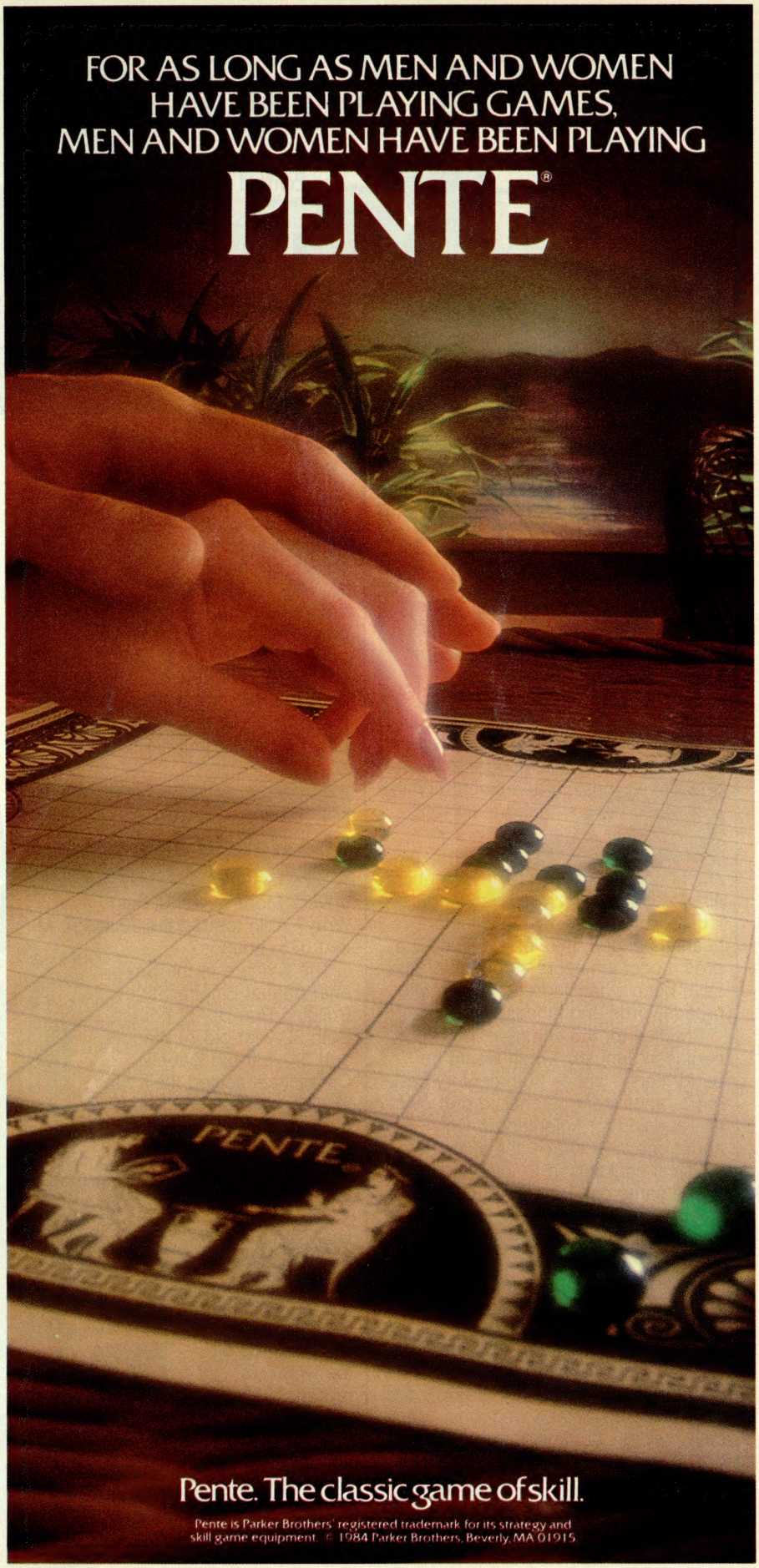
Conquest The First World Conquest Championship, in Los Angeles, June 1–3, is for top players of this popular strategy game who have completed the college preliminaries, and for others who make a donation to the sponsor, the American Diabetes Association. A new car and a home computer are among the prizes. All players receive a free Conquest game; the entry fee is $15. Contact: Conquest, 1122 W. Burbank Blvd., Burbank, CA 91506, or call (213) 849-7847.

Contest Gloria Rosenthal, a leading expert on the art of winning contests, will conduct a "how-to-win" weekend June 22–24 at the Williams Lake Hotel in Rosendale, New York. Guests can compete in a written contest for a free weekend at the hotel. Contact: Williams Lake Hotel, (914) 658-3101 or (212) 427-1211.

Frisbee Discs and about $35,000 will be up for grabs at the 1984 Mazda U.S. Open Frisbee Championships, June 26–July 1, in La Mirada, California. Seven planned events include disc golf, freestyle, and distance competitions. Contact: Dan Mangone, Box 911, La Mirada, CA 90637, or call (714) 523-5282.

Marbles Sixty champions from 15 states will try to crack the competition knuckles-down at the 61st Annual Marble Tournament, June 25–28, at Wildwood, New Jersey. First-prize winners in girls' and boys' divisions each receive a $500 scholarship. Players are generally sponsored by local groups and may not be over 14 years old. Contact: Eugene Mason, Box 1702, Cumberland, MD 21502, or call (301) 722-2000.

Trivial Pursuit™ Radio station WBLI and the Easter Seals Society are sponsoring the Trivial Pursuit™ Challenge, June 2, in Long Island, New York, for top know-it-alls. Four-person teams will compete under a single-round elimination system in this popular trivia board game. The entry fee is $100 per team. Contact: Easter Seals Society, 734 Walt Whitman Road, Suite 400, Melville, NY 11747, or call (516) 421-2200.



GAMEBITS

Edited by Curtis Slepian

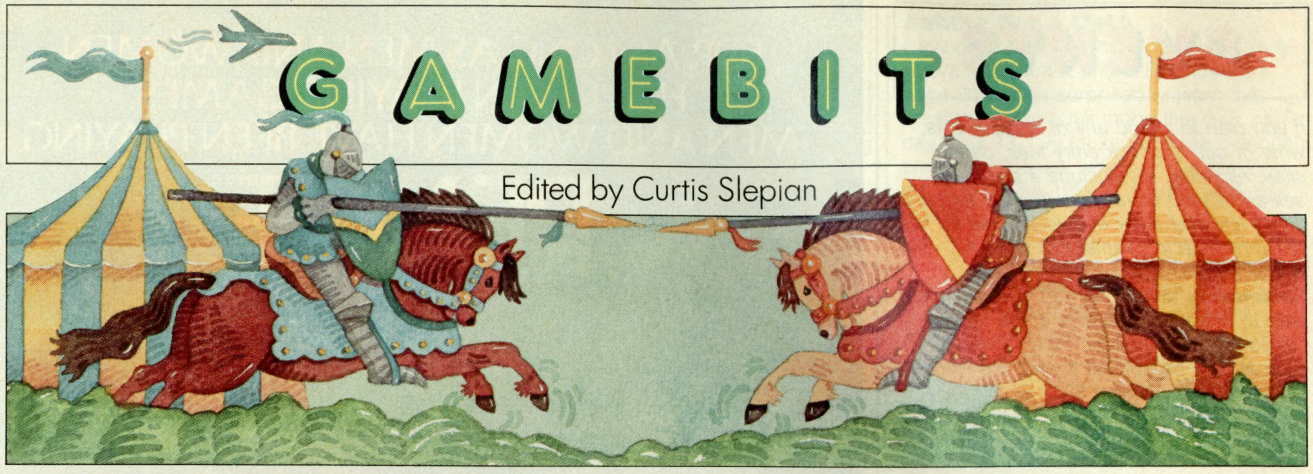


ILLUSTRATION BY MARY LYNN BLASUTTA

Day for Knight

The music of lutes fills the air and banners flutter in the breeze as knights and pages assemble in their pavilions. A time warp to Camelot? No, it's the Nottingham Jousting Association of Nottingham, England, preparing for another demonstration of medieval wargames.

From May to September, the 20 members of the association tour castles and other historical sites throughout England demonstrating the kind of prowess at jousting and sword-fighting that would have warmed even King Arthur's heart.

The association was formed by accident 13 years ago when Nottingham hired a group of stuntmen to stage a joust for a civic festival. But before rehearsals ended, injuries sidelined the pros. Local amateurs stepped in, and have been whacking each other with broadswords and lances ever since.

Practice for the summer shows begins in January, when would-be performers—whose 20th-century careers range from butcher to pub owner—audition for knighthood. Only about one in 10 shows the skill and physical constitution to join the troupe.

The same can be said of their steeds. "We look for well-trained horses with fire and breeding," says director Sam Humphrey. "A safe, predictable animal doesn't have the brains to catch on to what we're doing."

Though each show is choreographed and rehearsed at weekly training sessions, few concessions are made to safety—the knights rarely use extra padding or fake weapons. "Basically, we rely on timing and practice," observes Humphrey. Unlike their 12th-century predecessors, they wear leather breastplates instead of metal armor while riding. "When you are falling off a horse, you need that flexibility."

Despite frequent broken fingers and concussions, authenticity is the troupe's ultimate quest. True, the blades of the various swords—some of which are up to six feet long—are dulled, but medieval knights did that anyway. "Swords were bone-breakers, not cutting weapons. With all the chain mail and armor, knights couldn't hope to cut anything, except maybe the heads off a few passing peasants." However, for those attending the jousts, fear not. These knights display far better Round Table manners.

—Fran Severn

The Height Report

What's faster than a speeding cab driver? More powerful than Fay Wray? Able to leap tall buildings in 1,575 bounds?

The winners of the Seventh Annual Empire State Building Run-Up, of course. Both 32-year-old Al Waquie and 34-year-old Isabelle Carmichael scaled their way to glory last March to beat out the other 25 men and eight women competing. Their times for racing up 86 stories' worth of stairs were 11:29 and 13:32, respectively. Although the men's all-time record of 10:59 is still unchallenged, Carmichael shaved two seconds off the women's record.

The invitation-only race, sponsored by the Road Runners Club and the Empire State Building Management, drew competitors ranging in age from 23 to 72 and from as far away as France and Italy.

The women were given an 86-second lead time (one second for each flight of stairs), but when the men caught up, it was everyone for himself on the 40-inch-wide steps. And although the distance is only one-quarter mile (1,050 feet), the race is comparable to running two-and-a-half miles uphill.

But that wasn't a problem for Waquie, a Pueblo Indian from Jemez Pueblo, New Mexico, who trains by "chasing antelopes through the mountains. It's what keeps me fast. But I haven't caught one yet."

A marketing director for a New York bank, the French-born Carmichael likes the "uniqueness of the race. It's such a New York thing."

The oldest competitor was Chico Sciome, 72, a musician who traveled from his home in Taormina, Italy, for the event. After clocking an impressive 21:13, Sciome admitted he was "tired, but I could do it again . . . after I catch my breath."

With the agony of the run came considerable ecstasy. All those racers with enough stamina were rewarded with a breathtaking view of Manhattan from the Observation Deck, and the winners took home trophies and miniature replicas of the mighty skyscraper—proof they had conquered one of the world's most majestic metal mountains.

—Joanne Morici



After crossing the finishing line, winners Isabelle Carmichael and Al Waquie feel on top of the world.

EMPIRE STATE BUILDING BY CULVER PICTURES; RUNNERS BY ROBERT MAASS

Wretched Excess

Taxpayers don't mind when the government spends money on really vital projects, like missiles, Medicare, and Congressional junkets to Disney World. But some of those other expenditures can raise eyebrows.

Since 1975, Senator William Proxmire, a Wisconsin Democrat, has been riding herd on federal waste with his Golden Fleece Awards, issued monthly to those responsible for what he considers useless, frivolous, or overly large expenditures. It's a bit early to celebrate the 10th anniversary of this Washington institution, but election-year curiosity prompted us to look back over Proxmire's files. As an object lesson to the candidates on how not to spend government money, we

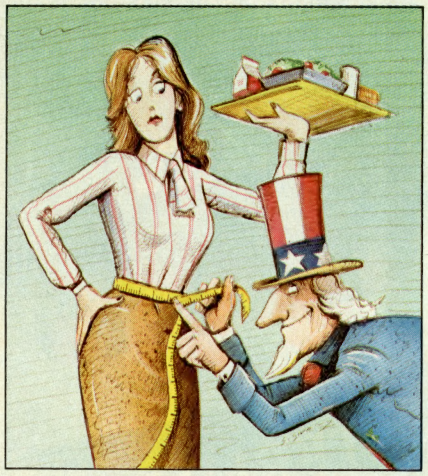


ILLUSTRATION BY STEPHEN SWENY

offer seven real boondoggles plus two that we made up. Can you tell the difference? —B. H.

1. The Air Force conducted a $3,000 test to find out how umbrellas affected military conduct: how often they were used, whether they were used with raincoats, whether their users considered them masculine, and whether they interfered with saluting.

2. After the all-volunteer army had been in effect in the U.S. for two years, the Selective Service System awarded a $98,029 contract to study the all-volunteer army concept in foreign countries.

3. The Federal Aviation Administration spent $57,800 for a study of the body measurements of airline stewardess trainees: the height of the anklebone, how close together the knees are while seated, and the skinfold of the posterior calf, among other things.

4. Since certain meteorological instruments that measured outdoor weather conditions could be read only outdoors, personnel risked getting wet if it was raining. Ever the considerate employer, the Federal Aviation Administration bought brand-new instruments that could be read indoors, at a cost of $417,150.

5. The National Endowment for the Humanities gave a $2,500 grant to Arlington County, Virginia, to learn why tennis players become unruly and ill-mannered when they have to wait for a court to play on.

6. The Law Enforcement Assistance Administration spent $27,000 to find out why prisoners want to escape from jail.

7. The National Science Foundation awarded a $12,200 grant to the University of Tennessee for studying whether a foul-smelling chemical added to the paint used in marking lane divisions on state highways would prevent chickens from crossing the roads.

8. The National Academy of Arts and Sciences awarded $8,000 to an artist in Colorado, who parachuted out of an airplane while setting fire to unrolling bathroom tissue to find out whether it would be completely burned before the man touched down.

9. The National Institute on Alcohol Abuse and Alcoholism spent $102,000 to study the effect of alcohol on fish, including one experiment to learn whether sunfish became more aggressive after drinking tequila or gin.

Answer Drawer, page 61

Pip Pip Hooray

San Francisco has always gone its own way. So while gin rummy, bridge, and pinochle are the social games of choice in most business and country clubs in the United States, in the Bay Area it's dominoes.

The mecca for dominoes in the City is the posh San Francisco Commercial Club, located in the Merchants Exchange Buiding in the heart of the financial district. Any weekday noon, hundreds flock to the club to indulge their overriding passion for the game.

Last February, 328 players crowded into the club's expansive dining room for the 1984 World Domino Championship. They paid $100 each to enter the tournament, with profits going to charity. All participants played 10 round-robin games, and the top 32 scores qualified for the elimination rounds.

Of course, dominoes on this level isn't a mere scramble to play all your tiles before the next guy. It's a partnership game, like bridge, called Five-up. To score points, you play tiles in order to make the total number of pips on the open tiles add up precisely to five or a multiple of five.

It's harder than it sounds. "You need to remember numbers—how many 6s are out, and so on," says 1978 world domino champion Peter Elting, a corporation vice-president. "On the skill level, it's below bridge, but on the relaxation level, it's higher. People take bridge too seriously."

Says another former world champ, Charlie Tobin, a San Francisco dentist, "A good primer for dominoes is chess, because in the strategy of dominoes you have to think four or five moves ahead."

Tobin, who has obviously played his share of chess and dominoes, reached the finals with partner Cory Born, a paper salesman from Daly City, California. Their opponents were a pair of Paine Webber stockbrokers, the goading Walt Vicino and the unflappable Izzy Galante.

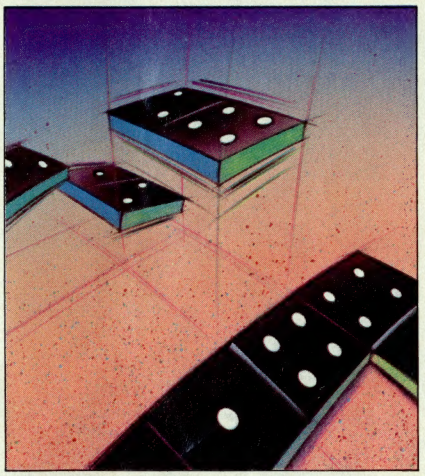


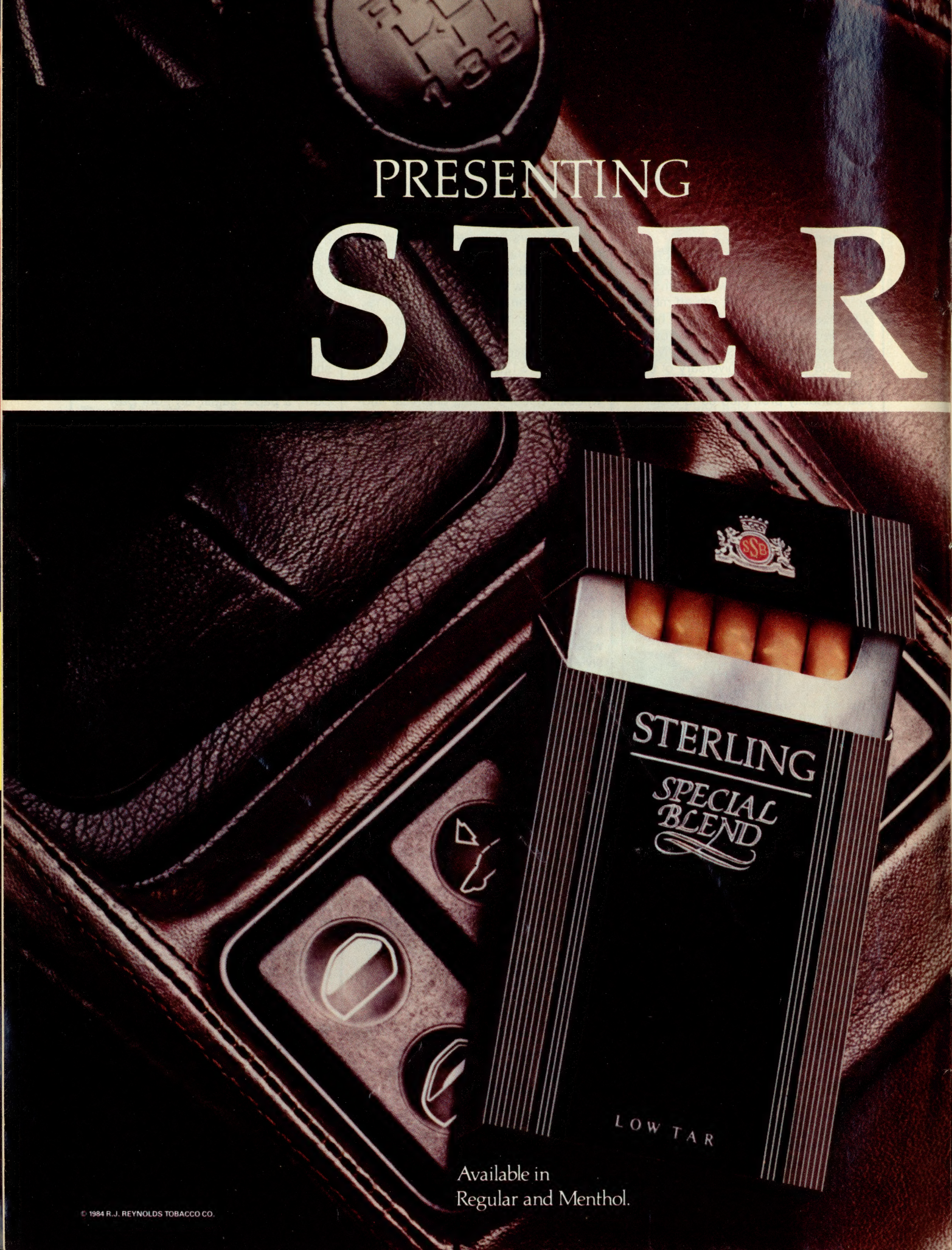
ILLUSTRATION BY AKIO MATSUYOSHI

"Do you want to concede this game and just get on to the next one?" Vicino needled his opponents in the first game. The patter continued through the second game and into the third: "Now we've won two. Why don't we just stop it and go home?"

How much effect the digs had on the best-of-five final match is hard to say. The losers claim it had none. But it certainly didn't hurt: Vicino and Galante won the world championship in three straight. —Roger Dionne

The Orwell Award for Best Euphemism of 1984

As of last February, State Department reports on human rights violations no longer use the word "killing." Instead, the Government has adopted a "more precise" term: "unlawful or arbitrary deprivation of life."


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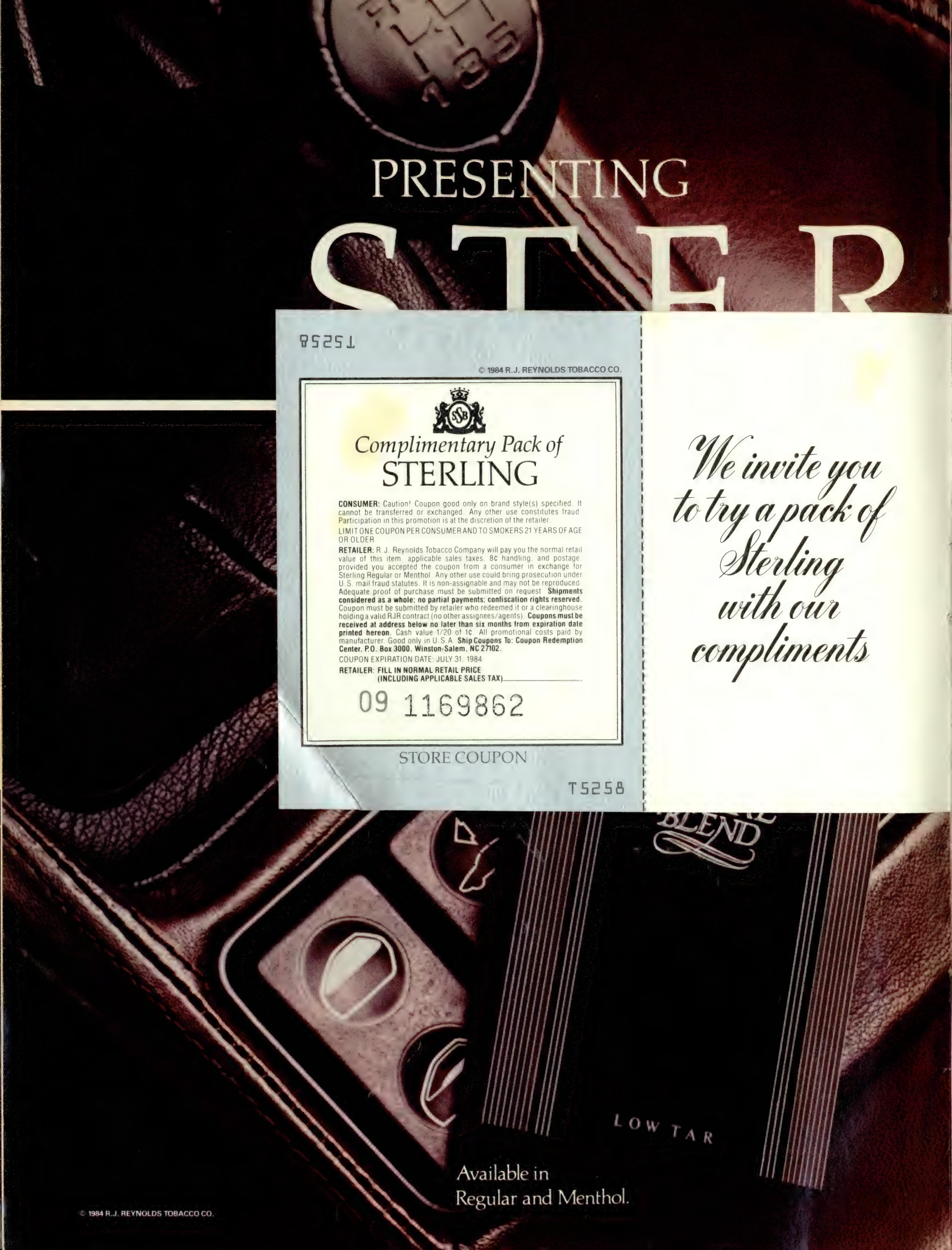
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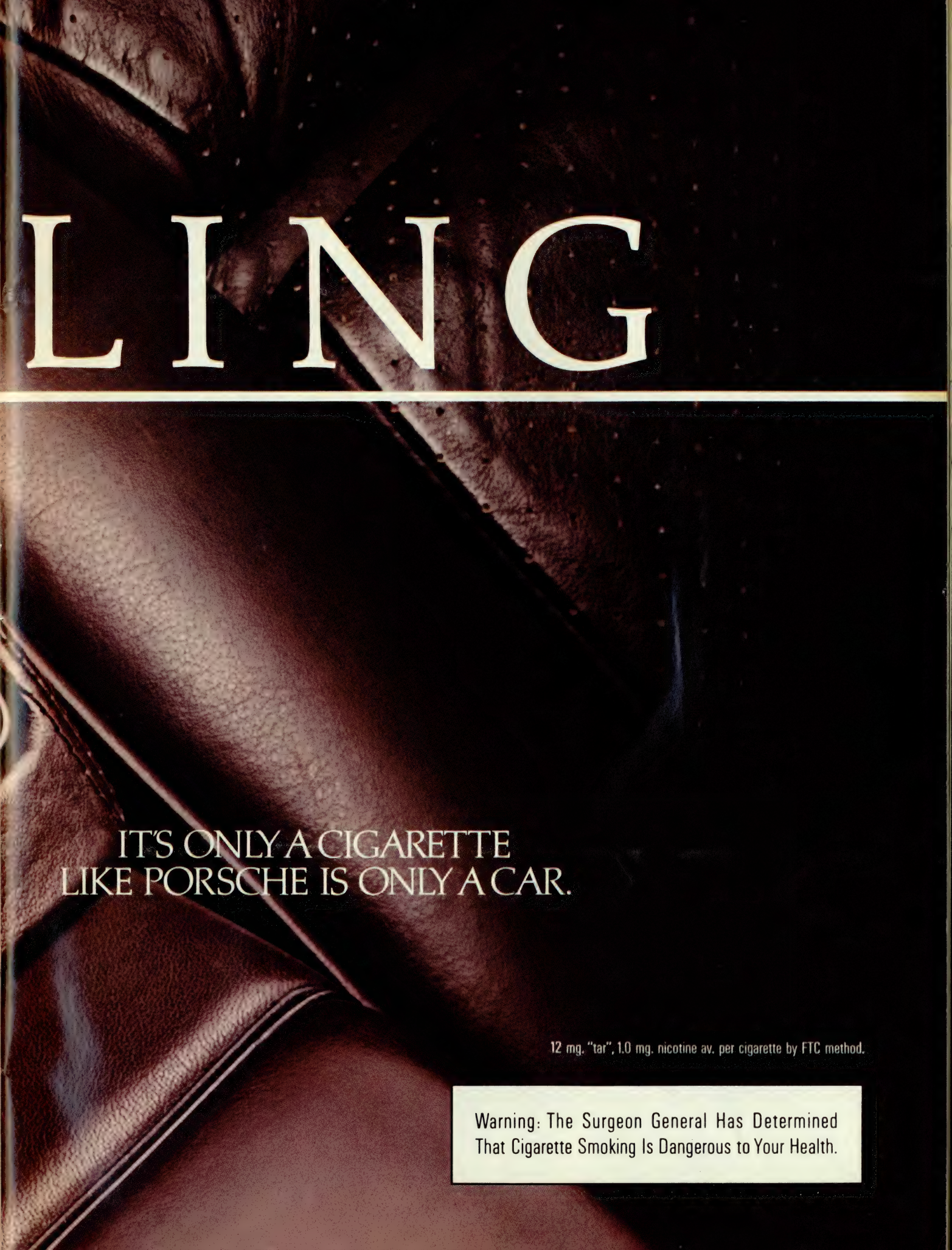
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THREE COIN MONTE

BY BOB NEALE

Certain kinds of magic can be effective even when the magician is nowhere near the audience. I'm about to predict the winner of a game among three fictional characters, all of whom are completely under your control. I'll call them Tom, Dick, and Harriet.

To prepare for the game, give each character a stack of three coins, each consisting of a penny, a nickel, and a dime. Each stack is arranged differently, as shown below. In Tom's stack the penny is on top, the nickel in the middle, and the dime on the bottom; in Dick's stack the order from top to bottom is nickel-dime-penny; and in Harriet's it's dime-penny-nickel.

Any two of the characters can play at a time. Their game is to compare their stacks one coin at a time, from the top down, to see who has the higher-valued coin more often. For instance, if Tom and Dick play with the stacks of coins they have just been given, Tom's top coin (penny) would lose to Dick's top coin (nickel), Tom's middle coin (nickel) would lose to Dick's middle coin (dime), and Tom's bottom coin (dime) would beat Dick's bottom coin (penny). Since Dick's coins outrank Tom's two out of three times, Dick would win the game.

Of course, no magic was needed to figure this out. To create a challenge, therefore, I want you now to choose any two of the characters and switch their stacks. For instance, you could give Tom's stack to Harriet while giving Harriet's to Tom. Don't change the order of the coins within either of the stacks. After you've made the switch, again pick any two characters (you may even pick the same two as before, if you wish), and make a second switch. Finally, make a third switch, again choosing whichever two characters you wish.

I think you'll agree I can no longer tell which character has which stack. Nevertheless, I will try to visualize the winner of a game between, say, Tom and Harriet, using your new arrangement of stacks. And the winner is . . . named in the Answer Drawer, page 62.

Dr. Robert Neale is a professor of psychology and religion at Union Theological Seminary in New York City and an amateur magician.



ILLUSTRATION BY HOWARD LEWIS

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The Further Adventures of Clement Wyssop

As I relax here on Proteus II, I reflect on my many voyages with Clement Wyssop, the 22nd century's most intrepid explorer. As Wyssop's friend and biographer, I, Dr. Alfred Curdleman, can personally attest to the great man's quick intellect and boundless energy. Here are three accounts of his cosmic exploits.

The Skoggy-Sled ★

When we set out to explore the polar regions of Altair IV, Wyssop and I had to hire a sled and a team of skoggies from one of the natives. At first the native was doubtful whether we could handle ourselves—and his team—in the frozen wastes. So he had us hitch his six skoggies to the sled by ourselves. They would allow themselves to be hitched only in their accustomed order (three pairs, one behind another), and all the native told us was this:

1. Arne and Dorri are the same color, as are Coco and Barri, and Errin and Fifi.
2. One white skoggy goes just behind the other and has Fifi just to its right.
3. Dorri goes next to a white skoggy and behind a tan one.
4. Coco goes next to a gray skoggy and in front of a white one.

Happily, Wyssop arranged the beasts correctly at once. What was their order, and what color was each skoggy?

The Dinosaurs of Arcturus ★★

The potbellied man from the Dinosaur Society was frowning.

"The doctor advises me that Wyssop will be out of commission for another week due to the atmospheric disorientation he suffered during his return from Arcturus," he said.

"He's not in any danger?" I asked, alarmed.

"No, no," the saurologist assured me. "Wyssop's condition does present one problem, though. The Society sent him to Arcturus to bring back specimens of the fauna. We have several dozen dinosaur eggs of four types: yellow, tan, blue-spotted, and green-spotted. But we don't know at what temperature to incubate them!"

"Nothing is left of his records?"

"Only these," he said, handing me the following computer printout:

1. I have studied the Plumfoot, the Quackosaur, the Redvelvet, and the Shibbishee. The average adult weights of the species are 90, 110, 120, and 140 kg. Their eggs are incubated at temperatures of about 70°, 80°, 90°, and 100° F.
2. The Shibbishee outweighs the Redvelvet by 20 kg and incubates its eggs at a temperature 10° higher.
3. Predators avoid eating both the Redvelvet and Quackosaur eggs, which appear identical to the color-blind ovivores. These two eggs are of nearly equal size, although the adult Quackosaur is lighter than the Redvelvet.
4. The heaviest of the 'saurs lays blue-spotted eggs, which are incubated at a lower temperature than the Plumfoot's.
5. The 'saur that hatches from a tan egg outweighs its yellow-egged cousin by some 30 kg and incubates its eggs at a temperature 20° cooler.

"But look!" I cried, waving the notes in the air. "Wyssop's given us all the information we need!"

What are the adult weights of the four species, what colors are their eggs, and how warm should the eggs be kept?

ILLUSTRATION BY MICHAEL BARTALOS

by J. Mark Thompson

The Denebian Statuettes ★★★

One morning Wyssop and I were summoned by the director of the Terran Art Museum, where an exhibit of masterpieces by the Denebian sculptors Hwa, Kvarto, L'Mong, Myro, and N'Ying was to open that day. On the director's desk stood five statuettes—of amethyst, estonite, jade, obsidian, and tourmaline.

"Yes, these are the statuettes," he said, "entitled *Balance, Freedom, Renewal, Strength,* and *Wisdom*. But I can't tell you which is which; the display cards have got mixed up!"

"Dear me," murmured Wyssop, looking over the cards, which read:

Balance This statuette and *Freedom*, carved 10 years earlier, convey the despondent overtones of the Reintegration Period that seem completely absent only from Kvarto's work. The *Balance* sculptor, following the example set by the L'Mong piece in this collection, strayed even further from the formalism of the amethyst statuette.

Freedom Fascinated by light, this sculptor turned from the jade used by his master in an earlier piece (on display here) to a rarer Denebian stone. Many of the same considerations would cause the *Freedom* sculptor's own student to turn to estonite 17 years later for his magnum opus (also exhibited here).

Renewal This statuette and Hwa's (completed seven years later) and the tourmaline piece (completed later still) are considered the most dynamic works to come out of the period that gave us these statuettes (the earliest having been done in 2018, the latest in 2042).

Strength Most critics see a similarity of purpose between this masterpiece and Myro's, though the two were separated by 14 of the most tumultuous years in the history of Denebian art. This piece and that of N'Ying, which it influenced, were completed closer together in time than any other pair here.

Wisdom This sculptor looked back on the jade statuette as the most abstract work of his predecessors. *Wisdom* shares the dedication to realism of the obsidian statuette and that of N'Ying.

"The exhibit can't open," moaned the director. "It will be a terrible embarrassment for the museum."

"No," said Wyssop. "I can arrange the cards correctly for you."

From what stone, by what sculptor, and in what year was each statuette carved?

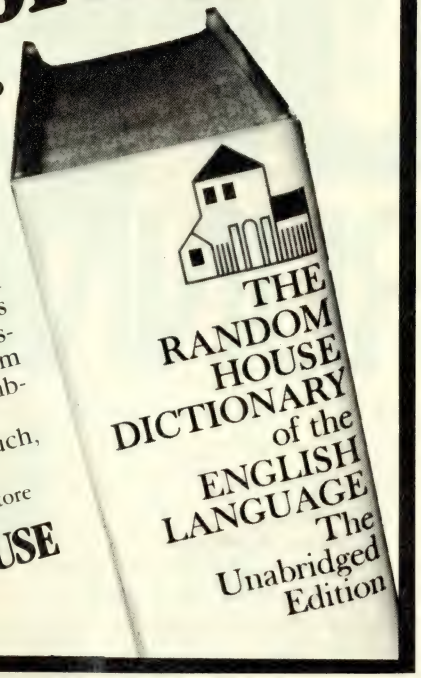
Answer Drawer, page 58

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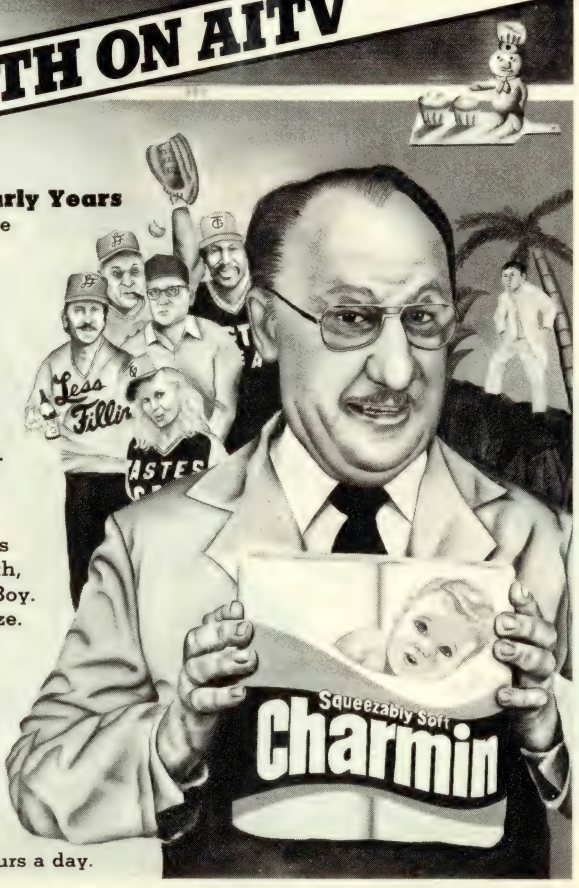


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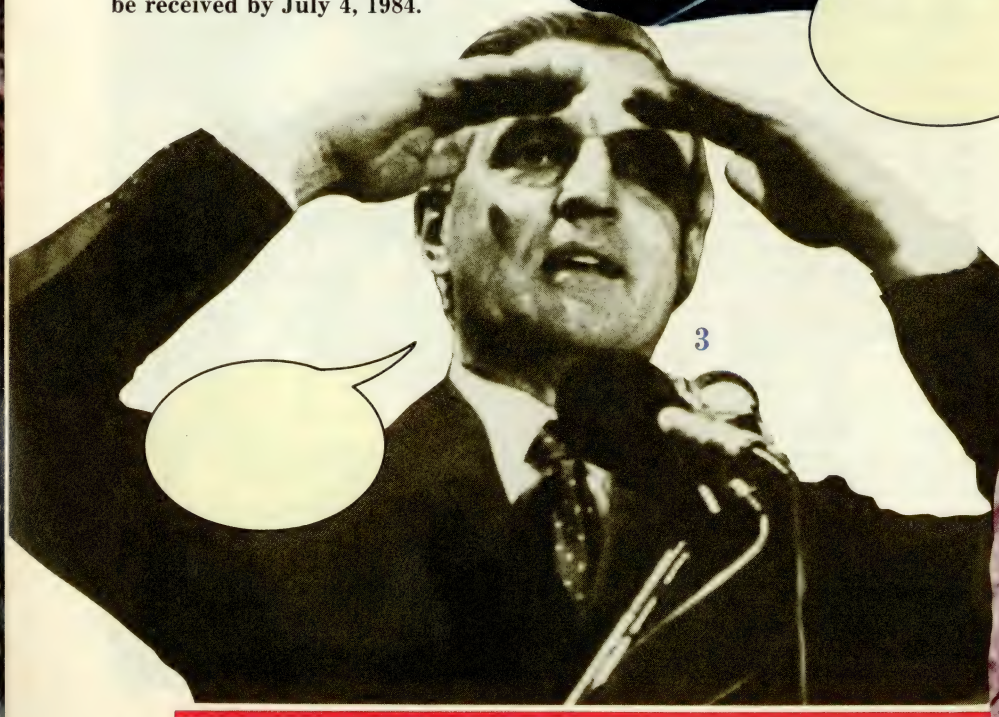
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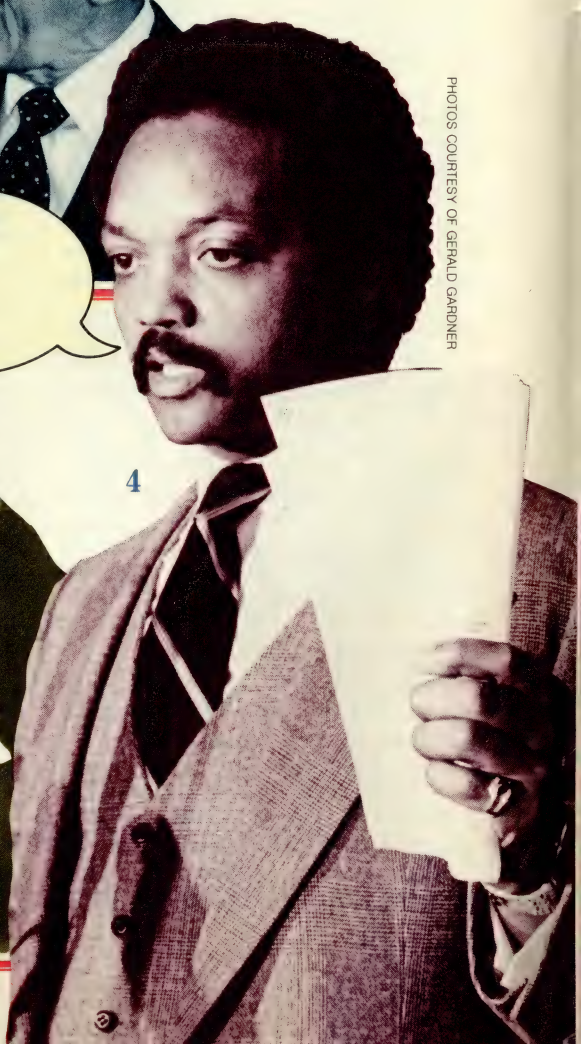
—Gerald Gardner

Mail entries to: Off and Running, GAMES Magazine, 515 Madison Ave., New York, NY 10022. Entries must be received by July 4, 1984.









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Can you blow the cover of these messages in disguise? ★☆

By Burt Hochberg

EYE SPY

No sooner did human beings learn to communicate than they found out there were some things they should communicate only in secret. Our earliest recorded histories include descriptions of cryptograms, ciphers, and all manner of codes by which the party of the first part got word to the party of the second part without tipping off the party of the third part.

A particularly bizarre case is recorded by Herodotus in his *Histories*. A Persian noble who had to get an absolutely confidential message to his brother-in-law in another kingdom shaved the head of a slave, tattooed the message on the slave's scalp, and, when his hair grew back, sent him on his "top-secret" mission. The brother-in-law treated the slave to another razor cut and obtained valuable information that enabled him to help overthrow the Persian court.

Since the invention of writing, the common coin of secret intelligence has been cryptograms and other traditional forms of ciphers. A message consisting of apparent gibberish, or one made up of groups of random letters or numbers, is obviously in code, and in time will be decoded. Sometimes, however, it's possible to conceal not only the message but also the fact that a message is concealed.

Who would suspect, for example, that a row of bottles behind a bar or a group of children in front of a school might conceal a secret message? Such are the inspired intelligence disguises described in these pages, along with a few traditional ciphers. The incidents described actually took place, although the messages themselves have been translated or adapted for puzzle purposes. To figure them out, all you need is a little imagination—maybe a lot—and an occasional hint. You already have one big advantage over the people these codes were intended to deceive: You know they're codes.

Answer Drawer, page 64

SIMPLE ACROSTIC

A good place to hide a secret message is in plain sight—for instance, within a routine, apparently innocent communication such as a personal or business letter. One way to do this is with an acrostic, in which the secret message is made up of certain letters of the larger message, in a pattern (called the key) known only to the sender and the recipient (they hope).

In the simplest acrostic, the covert message is spelled out by the first letter of each word of the overt text. For example, in the telegram AM INTERESTED RELEVANT RESEARCH ABOUT INVESTMENT DEAL SEND ESTIMATES TODAY, the acrostic message AIR RAID SET is so obvious that any spy who tried using this type of acrostic would be sent to the enemy as a gift.

Acrostics can be sent by radio, too. In the following message, used in 1940 by an English radio personality who was a Nazi sympathizer, the key isn't much harder to find, but here's a hint anyway: The three words at the beginning of the paragraph were a signal that the secret message was about to begin (it was part of a lengthy broadcast), and the three words at the end signaled that it was over. Why three words? British intelligence discovered the reason (and arrested the spy). Can you discover it too?

As for me, mind you, I am opposed, unendingly opposed, to dictatorship. But mandated governments are evil too, because they exist in a desert of economic mindlessness and display all the faults and disadvantages of the abandonment of sweet reason. So say I.

LETTER IMPERFECT

This letter was intercepted by a military censor in 1916. What aroused his suspicions was not the letter itself, which purported to be from one sister to another, but the postage stamps glued onto a card enclosed with the letter (see below). The censor broke this code in seven minutes. Can you beat his time?

My dear Sister,

Is Jamie better? His attacks, I know, cause you constant anxiety. But good fresh air and wholesome food are sure to bring about a great improvement in his condition.

Again let me urge you to maintain your heroic spirit. You have always been so very brave in the face of adversity, your weakening now would no doubt be cause for moving the lad to a hospital.

Yet I beg you to give serious thought to your own health, since your collapse would be devastating. It's vital you remain in charge of everything, so conserve your strength and curb your phenomenal industry.

Devotedly, Sylvia

P.S. Here are some postage stamps for Jamie fixed on a card so he won't have to exert himself with his album.





ILLUSTRATIONS BY CARTER GOODRICH

THE CRATE ESCAPE

Sometime in 1942, a group of French Resistance fighters in Marseilles discovered that one of their members, a certain Alphonse Ravilan, was a *mouchard*—a paid police informer. Fortunately for Ravilan, his sister was married to Joseph, the group commander. When Joseph told his wife that he would do to Ravilan exactly what any red-blooded Resistance fighter would do to any *mouchard*, she replied, "Not to my brother, you won't." So they agreed on a face-saving compromise: Ravilan would be unceremoniously smuggled out of the country at the first opportunity.

The opportunity soon presented itself. A dockworker sympathetic to the Resistance told Joseph that the next morning a consignment of live zoo animals in five large crates would be loaded onto a ship bound for Milan, addressed to one Adolph Roman de Sevérac. Joseph explained to Ravilan that he would be smuggled out in one of the crates, like the animal he was. Ravilan agreed, but only after demanding repeated assurances that there would be enough airholes in the crate and sufficient food and water for him to survive the long journey.

That night, Ravilan was hustled to the docks and placed inside one of the crates (its previous occupant became a resident of the Marseilles zoo). Early the next morning, while the crates were being loaded, the one containing Ravilan broke free of the hoist and plunged into the sea. Rescue attempts failed, *malheureusement*.

Was it an accident? Or did someone on the docks, knowing that the informer was in one of the crates, sabotage the hoist? If that was the case, how did he identify that one crate among five that all looked exactly alike?

Look at the illustration at left. Can you tell which crate contained Alphonse Ravilan?

BETSY THE BAR BELLE

It is 8 P.M. on a damp September evening. At a quiet pub in the north of England, Betsy stands behind the bar, glumly filing her nails. A number of glass jars, some empty, others filled to various levels with colored water, decorate the shelves behind her. Next to the shelves is a small blackboard on which the pub's offerings are listed in chalk. At a table in the rear of the pub, two drab men sit quietly sipping their stout and ogling Betsy. England is at war. No one feels much like talking.

A man enters the pub and goes directly to the bar. He speaks in low tones to Betsy, who nods once but does not look up. The man leaves without ordering anything.

As soon as he's gone, Betsy picks up a piece of chalk from its rack at the bottom of the blackboard and adds the words WINE and CORDIALS on the two bottom lines. She then removes a few of the jars from the shelves, spills out their contents, and refills them to various levels with colored water. She steps back to inspect her work, then adjusts the levels of one or two jars until she's satisfied.

The two drab men now approach her. One of them draws a wallet from his jacket and shows it to her. She becomes agitated and starts to cry.

"Now, now, calm down," the man says. "We know it isn't your fault."

"Please, Inspector," she wails. "He forces me to do it. I don't even know what it's all for."

"That's all right, Miss. *We* know what it's for. It's a code, you see, a secret message for the enemy. But we're onto him now, and his cohorts. Don't worry, no harm will come to you."

What is the message that the men from Scotland Yard discerned in the jars of colored water?



SCHOOL'S OUT



In a small town in German-occupied Norway during World War II, a factory that had once manufactured pharmaceuticals was now making war matériel vital to the Germans. Local citizens had no choice but to continue working at the factory as though nothing had changed. The only thing that kept their morale from collapsing was their faith that the well-organized Norwegian underground would somehow find a way to force out the invaders.

Indeed, a plan was afoot. It would mean the destruction of their own factory, but they were willing to make the

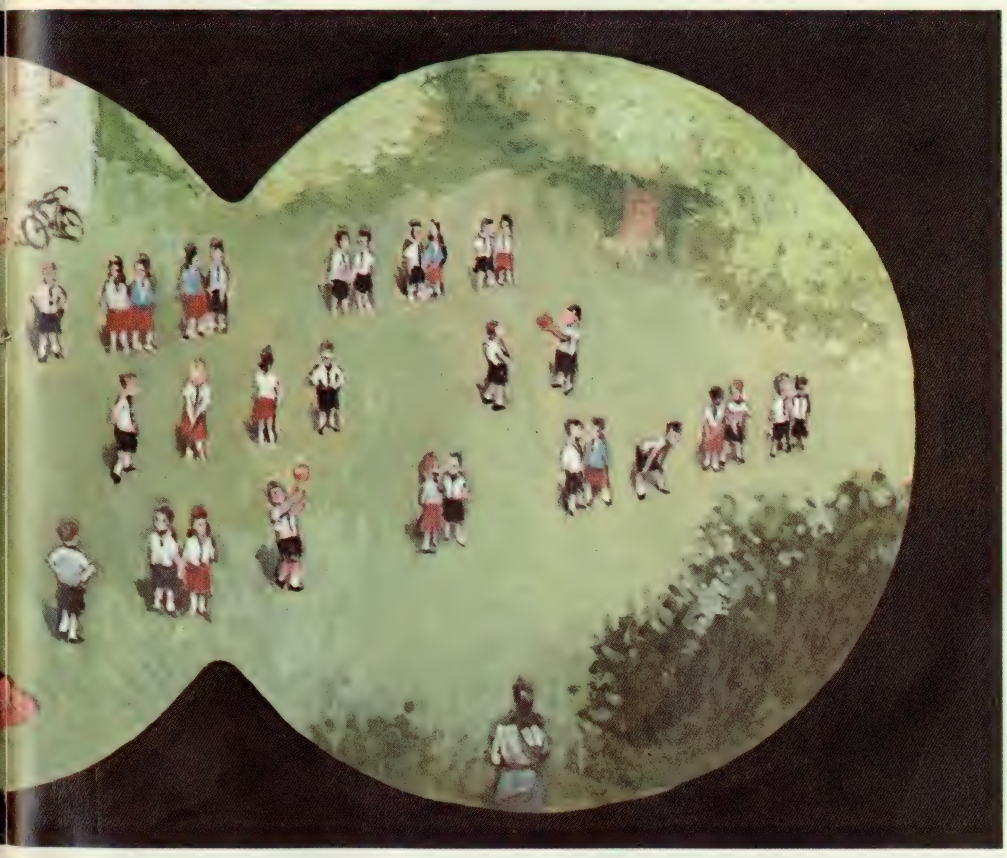
A CODE IN THE NOSE

Like a streetwise cop who can often sense danger on a routine patrol, the experienced cipher expert develops a "nose" that can sniff out a code in the next room. In the case of a note written in 1940, supposedly by a British soldier to his fiancée in the U.S., intelligence agents were tipped off by the letter's awkward, unnatural prose and rather confused content. What was the purpose of those single O's? And why 80 years instead of a nice round 50 or 100? The good guys found the sound solution. Can you?

Darling,

I miss you terribly and haven't heard a word from you. I'm studying to become an American citizen and have almost learned their national anthem. It goes "Say can you see, O say can't you see" or something. How I think of you and envy you safe in America! O why don't you write? How is your sister coming with that essay "Isles of the British"? I feel as though we've been apart for eighty years! Write to me about O, any subject at all. We aim to be sent to the front about July 26.

Love, Bob



sacrifice if it would help cripple the German war machine. The plan itself was simple: When factory workers were out of the building on their midday break, groups of local citizens would create diversions to distract the German soldiers patrolling the town and guarding the factory. A team of dynamite-laden commandos would then swiftly descend from the hills and blow up the factory.

The elements had been coordinated; all that remained was to choose the day. And on that day the commandos would receive a signal telling them what time to attack. The signal had to be visual because the commandos had no radio, and it had to be absolutely above suspicion in case it was seen by the Germans. It would be sent by the schoolteacher, who would simply take her pupils outdoors at a given time and see that they were arranged in a certain formation as they played. A commando observer in the hills would be watching the schoolyard through powerful binoculars.

On the appointed day, the observer saw the scene above, and it told him what time his team was to attack. Can you determine the time and explain how it was revealed by the pupils?

ARRIVEDERCI, ROMA

In 1943, while war was raging in Italy, a businessman walked nervously into a telegraph office in Verona and handed the clerk a message to be sent to Switzerland. The message began as follows:

AMENDED INVENTORY RECEIVED. MANY ITEMS NEED INVESTIGATION. SEE TO REPORTED YIELD . . .

The clerk looked up sharply and studied the man standing before him. The businessman began to fidget, and a thin layer of perspiration formed on his forehead. "Maybe you don't really want to send this" said the clerk.

"Why not?" The businessman paled. Many Italians, hating Mussolini for joining Hitler, were hoping to bring the war to an end, at least in Italy, by helping the Allies. This businessman was one of them. And now, it seemed, the jig was up.

Fortunately, the clerk was also an Allied collaborator. "Because," he said, "any censor worth his pasta can spot this simple acrostic with one eye: A-I-R-M-I-N-I-S-T-R-Y. And when he does, your life won't be worth two *centésimi*. Let's go to lunch and compose a new telegram. Does your Swiss friend know anything about ciphers?"

"As a matter of fact," the businessman said, "he is a cipher expert for American intelligence."

"*Benissimo*! Let's go."

After lunch, the following telegram was sent to Switzerland without interference by the Italian censor, who even with both eyes failed to appreciate the significance of the numerical expression 19 BY 19 BY 2. Hint: The numerals are the key to how the text is to be arranged. Knowing that, can you decipher the message?

HELPLESS WITHOUT ENGRAVING STYLUSES FOR NAVY CONTRACT. PLEASE SEND AS SOON AS ABLE FORTY SQUARE-TIPPED AND TEN OVAL-TIPPED TO OFFICE IN TRIESTE. ETCHING MACHINES REQUIRE 19 BY 19 BY 2 DYE POINTS ONLY. WILL SHIP ORDERS OUT WITHIN FOURTEEN DAYS OF RECEIPT. ADDITIONAL TIME NEEDED ON REQUEST OF PAYMENT FROM YOUR SUPPLIERS. ALL DEBTS WILL SOON BE OVERCOME, AS NAVY DEAL SHOULD BRING IN SUBSTANTIAL GAINS. WE AWAIT YOUR RAPID SHIPMENT OF STYLUSES.

Burt Hochberg, copy editor for GAMES, *was enciphered at birth and has never been quite figured out.*

FROM BOND WITH LOVE

★☆

THE 007 TRIVIA QUIZ • BY PHILIP GURIN

Nobody does it better than James Bond. The world's most famous spy, 007 is equally adept at ordering wine, saving mankind from destruction, and raking in box-office receipts. Despite the best efforts of Jaws and Oddjob, Bond's career in print and on screen has spanned four decades, and his popularity (unlike Sean Connery's hairline) doesn't seem to be receding. Last summer two new Bond movies—*Octopussy* and *Never Say Never Again*—premiered within months of each other, each starring a different Bond. And yet another film—*From a View to a Kill*—is upcoming with Roger Moore playing Bond for the seventh time.

You may have seen every Bond movie twice, but how much do you know about the suavest spy of them all? *Answer Drawer, page 58*

BOND ISSUE

Without Ian Fleming, there would be no James Bond. The aristocratic Englishman wrote 12 novels and 9 short stories about the ace of the Secret Service, earning him enough money to impress even a Goldfinger.

1. Ian Fleming began writing *Casino Royale* in 1952. Why, at the age of 43, did Fleming start writing this book?

a) He wanted to get out of the investment business.
b) He was tired of working as a reporter.
c) He was always fascinated with spy stories and thought he could write a better one.
d) He was fighting premarital jitters.

2. Fleming took the name of his famous hero from

a) thin air. It came to him while playing bridge with his friend and neighbor, Noel Coward.
b) a book about local birds of the West Indies.
c) the telephone book for Jamaica, West Indies, where he lived. He was subsequently sued for invasion of privacy by the real-life James Bond, who was finally forced to change his name to avoid further harassment.
d) a maitre d' at the London pub Fleming frequented during his days as a Reuters reporter.

3. In 1958, Fleming said he wanted which of the following actors to play 007 in the movies?

a) Roger Moore
b) David Niven
c) Laurence Olivier
d) James Stewart

4. Which was based on the James Bond character—a newspaper cartoon, a Broadway musical, or a TV series?

5. Where did Fleming get the idea to use the "double O" code for his "licensed to kill" department?

a) He made it up.
b) It was his lucky number at the roulette wheel.
c) It was the number used by British intelligence to classify top secret documents.
d) It was suggested to him by his OSS friend, General "Wild Bill" Donovan.

6. Ian Fleming was an avid gamesman, and much of his best writing can be found in passages concerning game playing. Match the game or sport (a–j) to the novel or short story (1–10).

a) baccarat
b) bobsledding
c) bridge
d) chemin de fer
e) chess
f) fishing
g) fortune-telling
h) golf
i) horse racing
j) scissors-cut-paper

1) *Casino Royale*
2) *Diamonds are Forever*
3) *From Russia With Love*
4) *Goldfinger*
5) *The Hildebrand Rarity*
6) *Live and Let Die*
7) *Moonraker*
8) *On Her Majesty's Secret Service*
9) *Thunderball*
10) *You Only Live Twice*

Philip Gurin is a freelance film and television writer. This quiz is adapted from his "The James Bond Trivia Quiz Book," published in April by Arbor House ($4.95 paperback).

BEAUTIES AND THE BEASTS

From demented villains and their grotesque henchmen to exotic women dressed in teeny bikinis, Bond always attracts an unusual crowd. The bad and the beautiful have one thing in common: By the final reel, Bond has conquered them all.

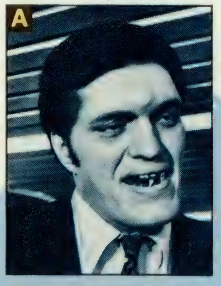
1. What does SPECTRE stand for?

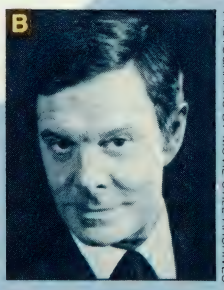
2. Who can resist 007? Not these ladies. Can you match them to the correct story or movie? "Oh, James . . ."

a) Gala Brand
b) Tiffany Case
c) Pussy Galore
d) Vesper Lynd
e) Honeychile Rider
f) Tatiana Romanova
g) Mary Ann Russell
h) Simone Latrelle ("Solitaire")
i) Dominetta Vitale ("Domino")
j) Magda

1) *Casino Royale*
2) *Diamonds Are Forever*
3) *Doctor No*
4) *From a View to a Kill*
5) *From Russia With Love*
6) *Goldfinger*
7) *Live and Let Die*
8) *Moonraker*
9) *Octopussy*
10) *Thunderball*

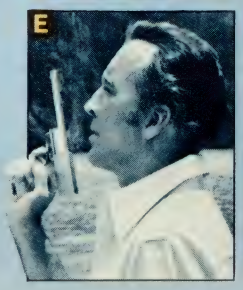
3. SMERSH and SPECTRE meanies have tried to kill Bond with tarantulas, lasers, poison-tipped shoes, flying steel-rimmed hats, spear guns, sharks, and video games, as well as an arsenal of more conventional weapons. Name these baddies and, for extra credit, the films in which they appear.













PHOTOGRAPHS BY MOVIE STILL ARCHIVES

DOUBLE-O EXPOSURE

Only M owns a complete dossier on James Bond. But if you're as dedicated a Bondwatcher as Miss Moneypenny, you should know a few of the agent's secrets.

1. In what country was James Bond born?
a) England c) Germany
b) Scotland d) Switzerland

2. Does Bond like his vodka martini stirred or shaken?

3. Fill in the blanks: James Bond smokes up to __ cigarettes a day. They are a special blend of _____ and _____ tobaccos made exclusively for him by _____, and he keeps __ of them in his gunmetal cigarette case at all times. Each cigarette has _____ around the filter.

4. What is Bond's official title?
a) Commander James Bond, C.M.G., R.N.V.R.
b) Sir James Bond, M.P., H.M.S.S.
c) Lord James Bond, Ph.D., D.D.S.
d) Lieutenant James Bond, C.M.G., L.S.M.F.T.

MINDING YOUR Q'S

If you're thinking of buying a wristwatch that emits a "hyper-intensified electromagnetic field" and comes with a tiny circular saw, forget it. That gadget, and many others, are made exclusively for Bond by Q, the Armorer. Thanks to him, Bond doesn't only live twice.

1. Match the weapon or gadget (a–f) to the film in which it is first used (1–6, only one gadget per film).

a) Geiger counter	1) *Diamonds Are Forever*
b) fake fingerprints	2) *Doctor No*
c) rocket-firing cigarette	3) *Never Say Never Again*
d) jet pack	4) *The Spy Who Loved Me*
e) exploding pen	5) *Thunderball*
f) ski pole with gun inside	6) *You Only Live Twice*

2. Where is the control for the ejector seat in Bond's Aston Martin?
a) on the steering wheel
b) in the gearshift handle
c) on Bond's belt buckle
d) in the console between the front seats

MALE BONDING

There's only one James Bond (as the creators of Matt Helm and Flint discovered). However, more than one actor has played him.

1. Who is older: Sean Connery or Roger Moore?

2. Surprise. Sean Connery wasn't the first Bond. In 1954, Bond made his first appearance in a dramatic presentation on TV. Who played him?
a) Paul Newman
b) Barry Nelson
c) Robert Redford
d) Cliff Robertson

3. In the multi-Bond spoof *Casino Royale*, David Niven plays James Bond. What character does Woody Allen play?
a) 007
b) Doctor Noah
c) Le Chiffre
d) Evelyn Tremble

SPY CRAFT

You can be sure of two things in a Bond flick: It contains a hit theme song and the opening title credits are a knockout.

1. Those catchy theme songs from Bond movies have often become pop hits (though surprisingly none has ever won an Academy Award for Best Original Song). Match the singer to the movie.

a) Sheena Easton	1) *The Man With the Golden Gun*
b) Lulu	2) *For Your Eyes Only*
c) Paul McCartney and Wings	3) *Never Say Never Again*
d) Lani Hall	4) *Live and Let Die*
e) Shirley Bassey	5) *The Spy Who Loved Me*
f) Rita Coolidge	6) *Moonraker*
g) Carly Simon	7) *Octopussy*

2. Match the film-title art (1–4, below) to the movie (a–d).
a) *The Spy Who Loved Me*
b) *Moonraker*
c) *For Your Eyes Only*
d) *The Man With the Golden Gun*

CRASHES AND SLASHES

Whether flying a minijet through a hangar, driving a car over a chasm, or skiing off a sheer cliff, it takes a lot of Hollywood know-how to get Bond into and out of trouble.

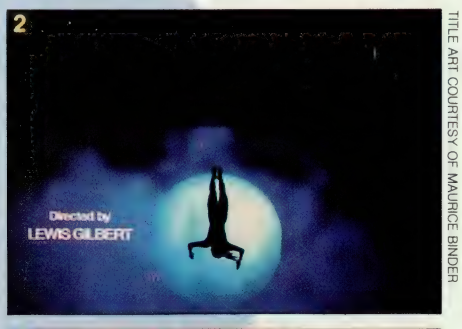
1. In order to shoot the sumo wrestler's sequence in *You Only Live Twice*, how many sumo wrestlers were placed on call for three days in Tokyo?
a) 12 c) 100
b) 50 d) more than a thousand

2. What film features a spectacular 110-foot leap through the air by a motorboat?
a) *Thunderball*
b) *Live and Let Die*
c) *Never Say Never Again*
d) *Moonraker*

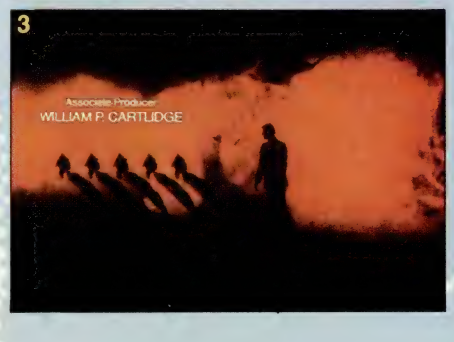
3. Which was the largest set built for a James Bond film?
a) the Taj Mahal used in *Casino Royale*
b) the volcano interior used in *You Only Live Twice*
c) the oil-tanker interior used in *The Spy Who Loved Me*
d) the space-station interior used in *Moonraker*

4. During location shooting, the cast and crew of which film traveled more than 100,000 miles, employed more than 80 transport vehicles, used approximately 100,000 gallons of fuel, ate 10,800 pounds of meat and 26,000 rashers of bacon, and polished off 50,250 bottles of beer, wine, and assorted soft drinks?
a) *Casino Royale*
b) *The Spy Who Loved Me*
c) *Moonraker*
d) *Octopussy*


1



2



3


4

TITLE ART COURTESY OF MAURICE BINDER

Out of Sorts**

HOW WOULD YOU ORGANIZE THESE EYEBALL BENDERS?

By Kimberly Butler

The pictures scattered across these two pages may look like a random assortment, but there's method to the madness. Clipped to each manila folder is a photograph identifying one of the four groups to which the 16 other pictures belong. Can you identify all the pictures, name the groups, and then place pictures A through P in the appropriate folders (four per folder)?

Answer Drawer, page 64



ALL PHOTOS BY KIMBERLY BUTLER EXCEPT RAINBOW, BY FOUR X FIVE


H
I
J
K
4
L
M
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O
P

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CAMEL LIGHTS

It's a whole new world.



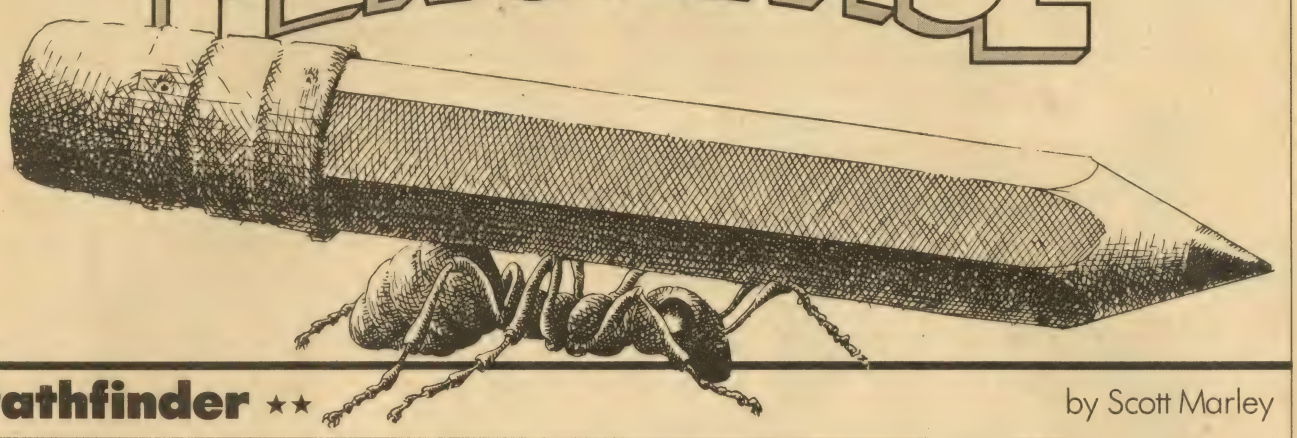
Today's Camel Lights, unexpectedly mild.

Warning: The Surgeon General Has Determined That Cigarette Smoking Is Dangerous to Your Health.

9 mg. "tar", 0.8 mg. nicotine av. per cigarette by FTC method.

Edited by Will Shortz

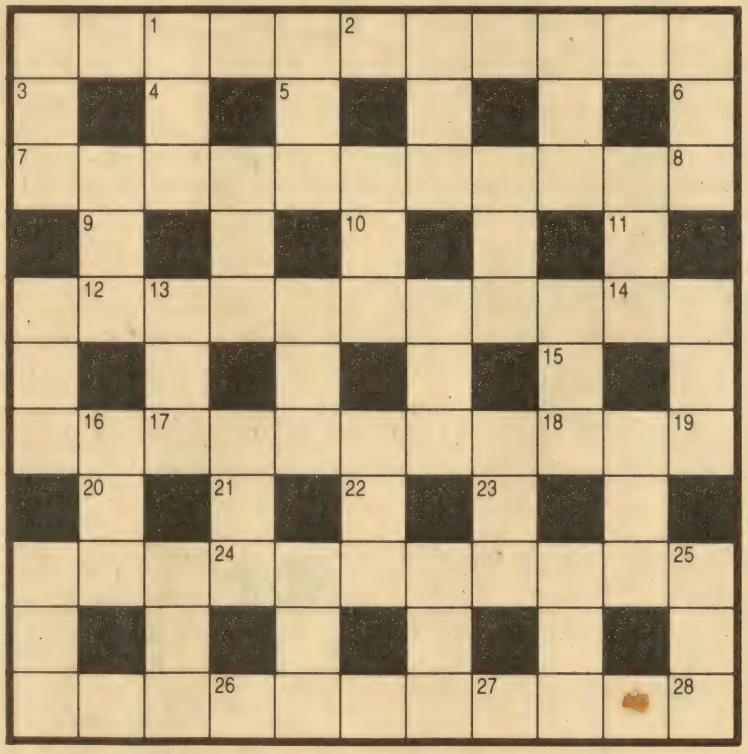
PENCILWISE



Pathfinder ★★

by Scott Marley

You'll need to think straight to find your way through this twisty crossword. Most answers take a winding path through the grid, making one or more turns. (A few answers make no turns.) The letter after each clue number indicates the answer's starting direction: north, east, south, or west; and the number in parentheses after the clue indicates the length of the answer. Each letter in the completed grid will appear in exactly two words—no more, no less. *Answer Drawer, page 58*



CLUES

1E Olympian repast (8)
2E Trigger's rider (3)
3N Fulton's vessel (9)
4S ABC or CBS (7)
5S Desert sight (5)
6N Turn aside (5)
7E Unlocked (4)
8N Be thrifty (4)
8W Greek poetess (6)
9S Angry (5)
10S Make lace (3)
11N Meager (6)
12N Quick retort (7)
13S Laundry additive (6)
14E Camera work (11)
15N Dreamlike (6)
16S Consecrated (7)
16W Alpha's follower (4)
17N Macaroni shape (5)
18N Firearm (3)
19W Product in a tube (10)
20S Crowbar, sometimes (5)
21N Acquisitive creatures (4,4)
21S Cover with asphalt (4)
22N Movie house, British-style (7)
22S Faithful (4)
23N Region (4)
24E Distinctive atmospheres (5)
25S Tough little girl (6)
26E Wonder (3)
27E Weep uncontrollably (3)
27W Flight hostess (10)
28N "Be prepared," for one (5)

ILLUSTRATION BY GABRIEL GIURGEA

On the Road Again ★

by Edith Rudy

A Traffic Sign Word Search

If you've been keeping up with the signs of the times, this word search should be right up your alley. The meanings of the 24 road signs below are hidden within the stop sign grid, some horizontally, some vertically, some diagonally, but each one in a straight line—No Turns Allowed. Top-notch motorists should be able to find all the answers from the signs alone, but if you want to yield to temptation, a complete word list is supplied on page 58.

Answer Drawer, page 63

```
      W N R U T T H G I R
    I L P L R O G E N A R S
  A H O S P I T A L I D G V I
C E T T O T R A F L S F N I C C
H E S C H O O L C R O S S I N G I E
L F N S E L I M I O N A O T S E R T I N
G O H O T A N D L A E F T R T S U R W N O C
S W M Z A K E E D V E R Y C B O O D O Y I U
G C O G S T Y C R R O A D N A R R O W S T R
A L I N D G R A H T A K H A E C N A A D C V
A E L I L O O W W N E O C I A R R O Y N E E
T A H S S E N S T E R E E R U E T T T G S A
H R A S T I S O P N N O T T F E U L R L R H
Y A I A P A I R T D F O U S O D R E A T E E
H N A P T W I O U E L O D E M A M K F E T A
G C P O L G A Y G R N O U D N D S O F U N D
  E T N H O F N R U T T F E L O N O I U I
    R T E W N E H W Y R E P P I L S C B
      O U L E V A G N I K R A P O N R
        Y A W H G I H D E D I V I D
          D S E D I T H R L U D Y
            S T E E P G R A D E
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Creature Feature ★

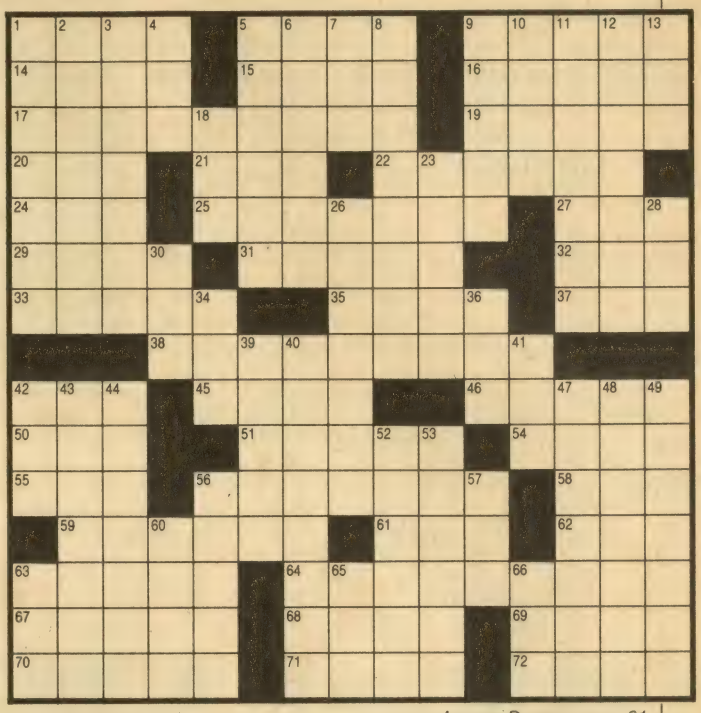
by Jean Reichert

ACROSS

1 Load cargo
5 Jackson of *Charlie's Angels*
9 Flower part
14 Ever and ___
15 Not odd
16 An instant
17 Cat's pajamas: 2 wds.
19 Creator of rags to riches stories
20 Where the 'eart is
21 Wayside lodging
22 Most up-to-date
24 Rob ___ (Sir Walter Scott hero)
25 Humiliate
27 Keystone ___
29 Chemical endings
31 Sailor's vacation
32 "Once ___ blue moon": 2 wds.
33 Pine pitch
35 Thaw
37 Amount left after deductions
38 Dingbat
42 Mom's counterpart
45 Banana cover
46 Of the Holy Father
50 ___, amas, amat
51 Aroma
54 Actor Paul ___
55 Command to a dog
56 Bonkers
58 Prank
59 Prove wrong
61 Johnny Cash's "A Boy Named ___"
62 Utmost degree
63 Prevaricators
64 Beat around the bush
67 Concur
68 Monogram: Abbr.
69 Capri, e.g.
70 Models for a picture
71 Four-in-hands
72 Lager

DOWN

1 Toiler
2 Plant akin to a buttercup
3 Adoring peepers: 2 wds.
4 Naval off.
5 Dog's home away from home
6 Retaliate for
7 Golfer's peg
8 Subjugator
9 Wyoming is one
10 ___ Stanley Gardner
11 Football
12 Nail polish remover ingredient
13 Celtic Neptune
18 "I ___ you not"
23 Author ___ Rogers St. Johns
26 Strays from the subject
28 Butter square
30 Brother or sister, for short
34 ___ and tuck
36 Inside information
39 "Start over" button on a stopwatch
40 Old and weak
41 Asian country, to GIs
42 Small amount
43 Explorer Vespucci
44 Folded corners, as in a book
47 Turned-up proboscis: 2 wds.
48 Novelist ___ France



Answer Drawer, page 61

49 Smokers' accessory
52 Loch creature's nickname
53 Has faith
56 Transports to school
57 Lock opener
60 "___ Parking" (Monopoly space)
63 Once around the track
65 Prefix with form or cycle
66 Little white lie

Pop Quiz ★

by Jack Lechner

To celebrate Father's Day—June 17 this year—here's a quiz in honor of dear old dad. The answer to each of the clues is a familiar word, phrase, or title containing the word POP. For example, given the clue "Kind of children's book," you would answer POP-UP, and for the clue "Top 40 songs" you would say POP MUSIC. If you can answer 14 or more clues correctly, you must really be popular. *Answer Drawer, page 58*



1. Movie theater snack _____
2. Cartoon "sailor man" _____
3. Candy sucker _____
4. Carbonated soft drink _____
5. High infield hit _____
6. Aspen tree _____
7. Rice Krispies sounds _____
8. Child's toy weapon _____
9. Noted Massachusetts orchestra _____
10. Air-filled quickbread _____
11. What the census reveals _____
12. Propose marriage _____
13. Pull-tab can type _____
14. Nonsense! _____
15. Children's song _____
16. 1938 Olsen/Johnson Broadway hit _____

ILLUSTRATION BY STEPHEN SWENY

Dszquphsbnt! ★☆

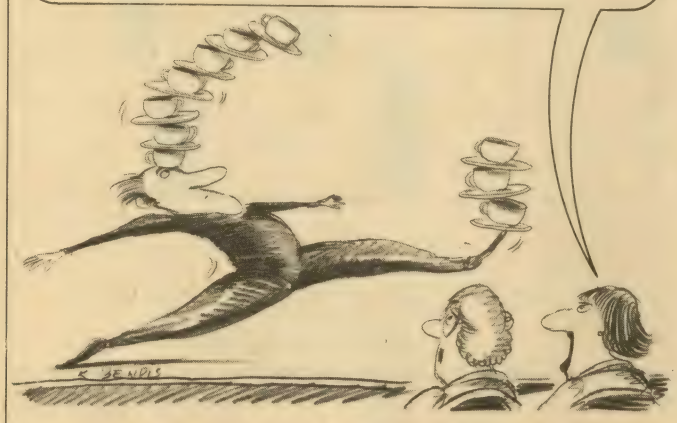
by Sally Porter

Below are seven messages—consisting of pithy sayings, fascinating facts, and a cartoon gag—that have been translated into simple code alphabets. Letter substitutions remain constant throughout any one cipher, but change from one cipher to the next, and the level of difficulty increases as you progress. An asterisk (*) indicates a proper noun.

Clues are given at the bottom of the page to provide assistance if you need it. *Answer Drawer, page 64*

1. CRYPTOON

ZDMV M BDWQN MFV! S
DMBBTQ VW CQWZ VDWPT
FOBP LWQ'V ATMXXN DMHT
VDT XTMPV LAWB WE VTM
SQ VDTJ!



2. ENTERTAINING

UP LPYMPX LKBP BNCPX
JFHL WH KFY DWLH XNJJPY
GWYHR. KV ZKFYLP, UP VPX
HTP KHTPY QFPLHL, HKK.

3. WHO MADE THE SALAD?

SNORE LYLYBKVF, PVNSCNRS
HMVF EPVDMV WHYRXT,
KFHYSCE GNFTE WFNJV EH
WFHYX. OBOEVYF SOFXVRVF.

4. THAT'LL TEACH 'EM

PW KGXZWNMVYT CMGTRKX
CMWH YGLGRY DWN
XNMSMGXT SVMPGTX, PMD
YMTTPGRY PATH GR DWNM
FGMPAKVD XNGP.

5. MISMATCH

GHUMBRZK *CGDNJRPH *BMH
WRML GHTRDTFJ
QZLNMCRKGHV BRJFYH
WZBMH KSZDD PGNW MCF
QMP.

6. OCEAN TAILS

BOX, CHEX PLYLDAA, WQDAY
VLEEAT "BAL VWK," NCUDA
EUGAEX BJLKYAT PAMPLUT
EAHAYT JWJCELM UY
BALQLMAM PXDO.

7. SUMMER FRIVOLITIES

SPQR JQPSTNKM TLLWVR
GWSKWDXKV QCHCVPWCM
KHNVTM QPBK YVKKFZ
QTXTP, JWFZ MWQTVPCS,
WEKX RKJB DPNG MTCXT.

TIPS AND CLUES

Cipher 1: Compare ciphertext VDT, VDTJ, and VDWPT. These suggest the words THE, THEM, and TH __ __ E (you complete the third).

Cipher 2: Ciphertext HKK, appearing at the end of the sentence and following a comma, is a good bet to be TOO.

Cipher 3: Note ciphertext V, which ends two words and appears next-to-last in three others. It's likely to be an E.

Cipher 4: Note ciphertext DWN and DWNM, with a low-frequency D that appears elsewhere only in the last position. Try YOU and YOUR.

Cipher 5: Letters of high frequency that appear adjacent to letters of very low frequency are usually vowels, and identifying them can be very valuable. Here the five vowels are represented by G, M, R, Z, and F (but not in that order).

Cipher 6: The doubled A at the end of the third word appears last or next-to-last in six other words. Try E.

Cipher 7: A letter that appears two or more times in both the first and last positions is usually S.

ILLUSTRATION BY KEITH BENDIS



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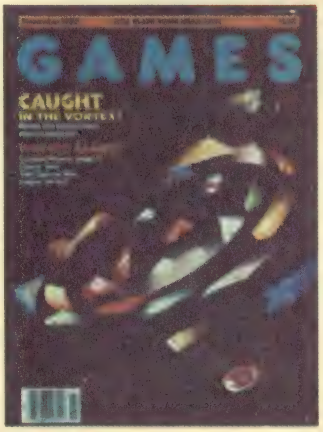
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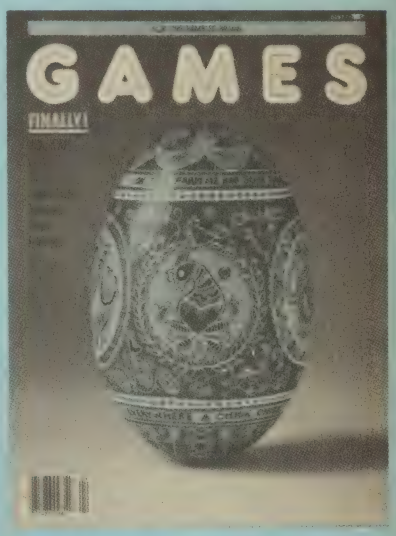
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Across the Board ★★

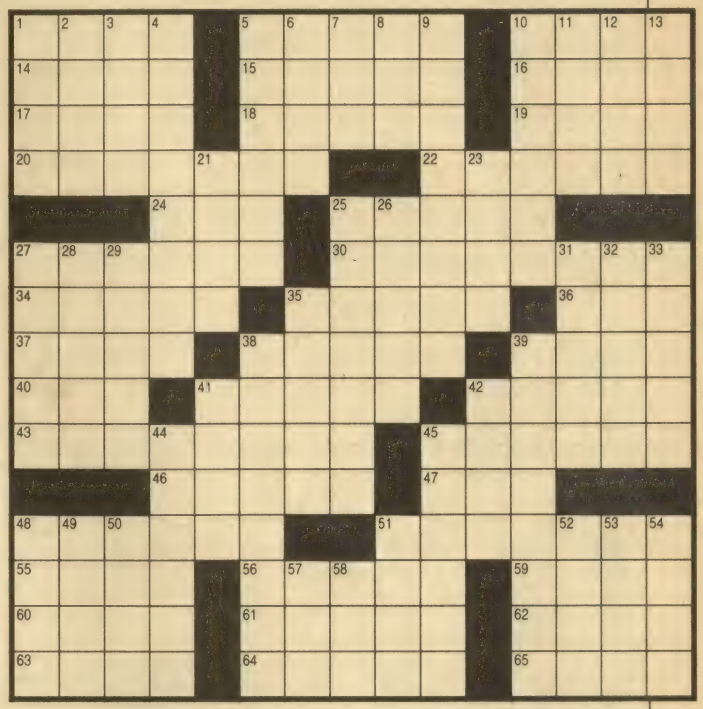
by Adele and Judah Koolyk

ACROSS

1 *Mary Tyler Moore Show* actor: 2 wds.
5 Giving rise to
10 Labor leader I.W. ___
14 Eye colorer
15 Hair colorer
16 Stray
17 Sheet of ice, at sea
18 What asterisks sometimes do
19 Antony's love, for short
20 Containing iron
22 "Disarm" a bull
24 Eighteen-wheeler
25 Well-known stand-up comic: 2 wds.
27 Alternatives to convertibles
30 One who might say "Forget it!"
34 "The slammer"
35 Display disdain
36 Basketball org.
37 Latin I verb
38 20 shillings
39 "Me and You and ___ Named Boo": 2 wds.
40 Author Deighton
41 Festive parties
42 Blazing
43 Less cheerful
45 Jeweler's units
46 Fine's partner
47 Onassis's nickname
48 Show TLC
51 Sun spot?
55 They're new to the majors
56 Seer's deck
59 Indigo source
60 Do magazine work
61 Informed
62 City on the Seward Peninsula
63 Swede's neighbor
64 Cordelia's father: 2 wds.
65 Hive ruler: 2 wds.

DOWN

1 Spat
2 Author Gardner
3 Designer Christian
4 Chivalrous ones
5 Shoulder movements
6 Tribe on the Platte
7 Baseman's area: Abbr.
8 Compass pt.
9 Was a nurseryman
10 Church VIPs
11 ___ tie (neck cord)
12 At any time
13 Uris or Trotsky
21 Sty cry
23 Ogler
25 White sale time
26 Signs of the future
27 Burn, in a way
28 Bugs's nemesis
29 Shelley Long's *Cheers* role
31 Kind of ink
32 Halt, as a mission
33 Catches, as a lion
35 Did shoe repairs
38 Meticulous
39 Bogart-Hepburn film, with "The": 2 wds.
41 Mardi ___
42 Bern's river
44 "___ Fidelis"
45 Smiley President
48 Dishonest
49 Verdi opera
50 Power line?
51 ___ song (cheaply): 2 wds.
52 Drawer feature
53 Fruit drink flavor
54 Gen. Robert ___: 2 wds.
57 Leatherworker's tool
58 1979 movie *Norma* ___



Answer Drawer, page 61

Whose Clues? ★☆

by Stephen Sniderman

What's in a name? Well, if you look closely at its letters, you may find that it contains a clue to its owner's life or career. Try CLARENCE DARROW, for instance: Among its letters is Darrow's profession, LAW, reading in order from left to right. And the name of decathlon champion BRUCE JENNER appropriately includes the letters that spell out RUNNER.

Below are 14 words extracted from the names of famous individuals. Using each as a clue, can you fill in the blanks to identify all 14 people? (And then can you add to our list of Whose Clues? We'll send a GAMES T-shirt to each reader who submits a name we print.)

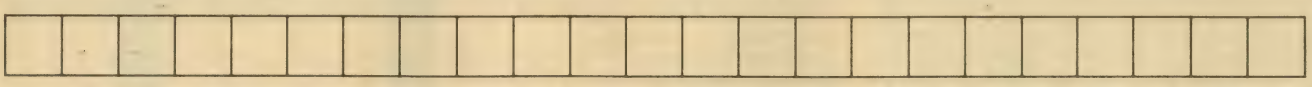
Answer Drawer, page 62

1. I N D I _ _ _ A _ _ _ _ _
2. B A _ _ _ _ _ T _
3. _ A R I _ _ A _ _ _ _ S
4. _ I _ _ _ _ _ _ _ _ _ D
5. B O D _ _ _ _ _
6. _ _ _ _ _ _ _ P A _ _ _ _ R
7. J _ E _ _ _ _ _ T _
8. _ H A _ _ _ _ _ _ H A _ _ _ _ _
9. _ _ _ _ _ _ _ S _ _ _ _ _ _ E A _
10. _ O _ _ _ _ N _ O _
11. C H I _ N _ _ A _ - _ _ _ _ _
12. _ _ _ _ L _ _ _ _ _ _ _ _ _ E _ _ _ _ A R _
13. M A _ _ _ _ P _ _ _ _
14. _ S _ _ _ _ _ W _ _ _ _ I _ M S

23 Skiddoo ★

by Lori Philipson

Read the following instructions carefully and follow them to the letter. The results may look chaotic, but remember—it's not over till it's over. (Note: Not all the squares will be filled when the puzzle is completed.) *Answer Drawer, page 60*



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

1. Write the mathematical symbol for addition, as large as an uppercase letter, in boxes 15 and 23.

2. The name of a vacuum-cleaner company is the same as the last name of a former FBI director. Print the FBI director's first-name initial in boxes 7 and 21.

3. A letter of the alphabet is a homophone for a word meaning "ocean." Print this letter, rotated 90° clockwise, in box 22.

4. The largest city on the West Coast is commonly known by its initials. Print its first initial, in mirror image, in box 10.

5. A letter of the alphabet describes the neckline of a tennis sweater. Print this letter in boxes 3, 9, and 19.

6. When a certain letter is added to the beginning of a word meaning "a flat piece of furniture," a new word meaning "a farm building" is formed. Print that letter in box 12.

7. In 1983, the Oscar for Best Picture was awarded to a movie about a famous world leader. Print the third, fourth, and fifth letters of the title, in lowercase, in boxes 16, 5, and 2, respectively.

8. One of the vowels appears only once in the entire list of months. Print it in lowercase in box 1.

9. A common pronoun is pronounced the same as its last letter. Print the second and third letters of this word in boxes 17 and 20, respectively.

10. A one-digit and a two-digit number name a chain of convenience food stores (the same combination is known as naturals in the game of craps). Print the one-digit number in box 4 and each of the other digits in boxes 8 and 13.

11. If Texas is not the only state beginning with the letter T, bisect the symbols in boxes 3, 9, 10, and 19 with a horizontal line. Otherwise, bisect only the symbol in box 10.

12. In box 18, print the number that sounds the same as the German word for "no."

13. When you have followed all the instructions above, turn this page upside down and read the message you have written in the boxes.

Building Blocks ★★

by Will Shortz

The three final letters of each of the words in this puzzle have been filled in for you. To solve, insert the "building blocks" listed along the sides into the remaining squares—without rearranging the letters—to complete eight nine-letter words reading across. Each of the building blocks will be used once, so you may cross them off as you use them. When all the boxes have been filled, two of the columns reading down will spell additional related words. *Answer Drawer, page 60*

CON
CRI
ETI
FAL
HOR
IST
MAG
NES

						A	C	K
						I	O	N
						U	S	E
						R	A	R
						O	O	D
						T	T	E
						A	I	N
						I	U	M

PEN
QUE
REG
SEB
SEH
STR
TER
THO

Logiquiz ★☆

by Jules Roth

The nine quizzes here are of progressively increasing difficulty, and though separate, all have something in common. The challenge is to determine the logical basis of each puzzle, whether synonyms, rhymes, homophones, related phrases, or some other form of wordplay. In each case the solution will consist of single letters that go in the appropriate boxes of the vertical grids between words. In the first few quizzes, blanks are provided as an aid to solving; after that, it's sink or swim. The puzzles get pretty tricky around #5.

Answer Drawer, page 64

1

__OURNFUL		__OROSE
__NNATE		__NHERENT
__NCIENT		__RCHAIC
__EAN		__ALICIOUS
__NFURIATED		__RATE

2

SHOR__		__ALL
__GLY		BEA__TIFUL
EAR__Y		__ATE
FA__T		__LOW
PL__IN		F__NCY

3

C ST		T SSED
CLAI		BLA E
W IST		P STE
LOAT E		CLOT E
B LD		C LLED

4

WEIGH		WAI
TAT		TAGHT
HASTE		HASED
LEAT		LEAED
RWED		RAD
EW		GU

5

MDEOR		WE
NDAK		NDU
SDREH		LYI
CYRZ		IENNS
AADFI		SACDE
SNNIY		LNA

6

OGL		EGGRI
SRBS		KSTC
ANMTUIP		DEOBN
MUMUNIA		OFI
DLE		OLNBOL
RVLEI		OPNO

7

EJMS		DIMNOS
DEEHOOR		EELOORSV
ADILMR		EFILMOR
HRRY		MNRTU
ADERW		ACJKOS
CEEHRS		AHRRU
DLNOR		AEGNR

8

EFHLTW		GHIN
DHIT		DLOW
EEHINNNTT		HLO
EEHSTV		AEEHV
FFHI		ADEEMMNN
FHRTU		DEIIMNNS
CDEOS		ADH

9

CEFH		AADL
ABKRS		DNOZ
BMNSSU		DHILOY
ACEEHRS		EP
ACCEHRS		IMT
BEMPRSU		EEHPR
ADELRS		CCHIO

Scrapbook Mixup ★★

Harold keeps a scrapbook of newspaper clippings that have been sent to him by his pen pals around the world. Recently, before he could paste up the 10 newly arrived clippings shown on these two pages, the wind from an open window scattered them all around the room. The clippings were not marked with their sources, but Harold knew each came from one of the newspapers listed at bottom right, and that all were published during January. From the clues in the clippings, can you help Harold match each to its original paper?

Answer Drawer, page 61

1.

LAST WEEK in review

SATURDAY:

IS COCONUT WATER TO FEEL TAX AXE?: The Ministry of Finance has presented Customs and Excise with a problem with the imposition of a new ten per cent purchase tax on locally produced foodstuff and juices. Customs officials are in a frenzy to determine whether drinking water and coconut water fall within the tax list which includes spa waters and aerated waters as taxable items. More troublesome areas for the Customs Department will be food preparation which is wide ranging. It can include roti, barra, doubles, black pudding, souse, pelau and other local foods. The question is how will Customs monitor the operation.

2.

MOVIE DIRECTORY

AMOR — "TENG TENG DE SARAPEN"
AVENUE — "HOT PROPERTY"
BARON CINEMA — "GUNFIGHTER"
CAPRI — "KARNAL"
DILSON — "TENG TENG DE SARAPEN"
EASTERN — "KARNAL"
EVER — "BAGO KUMALAT ANG KAMANDAG"
GALAXY — "GUNFIGHTER"
GOTESCO — "BAD BANANAS SA PUTING TABING"
GOTESCO A — "HOT PROPERTY"
GOTESCO B — "OVER MY DEAD BODY"
HARRISON 1 — "OVER MY DEAD BODY"
HOLLYWOOD — "GUNFIGHTER"
JENNET — "TENG TENG DE SARAPEN"
LIFE — "THE GODSON"
LORDS — "KARNAL"
LUNETA — "BAD BANANAS SA PUTING TABING"
MAIN — "BAD BANANAS SA PUTING TABING"
AIR — "THE GODSON"
— "GUNFIGHTER"
MAR — "TENG TENG DE
APEN"
LOVE 1 — "TENG TENG DE
APEN"
LOVE 2 — "OVER MY DEAD
DY"
ON — "THE GODSON"
MON — "BAGO KUMALAT
KAMANDAG"
EN — "OVER MY DEAD BODY"
BINSON 1 — "HOT PROPERTY"
BINSON 2 — "THE GODSON"
BINSON 3 — "GUNFIGHTER"
DXAN — "BAGO KUMA
AMANDAG"
TATE — "BA
G TA

3.

WARWICK SCHOOL LUNCH MENU

Week of Jan. 9-13

Elementary Schools

Monday
Weiner wink or hot dog, homemade baked beans, potato chips, carrot sticks, cookies

Tuesday
Baked lasagna, or mac. and cheese, tossed salad w/french dressing, roll, buttered green beans, popsicle

Wednesday
Hot turkey sandwich, mashed potatoes w/gravy, buttered broccoli or corn, fruit compote

Thursday
Cheeseburger, french fries, tomato and lettuce salad, fresh fruit

Friday
Pizza boat, celery and peanut butter, potato chips, applesauce

Secondary Schools & Faculty

Monday
1 Weiner wink, homemade baked beans, potato chips, carrot sticks, cookies
2 Veg. beef soup, meat ball sandwich, carrot sticks, fruit or cookies

Tuesday
1 Baked lasagna or mac. and cheese, tossed salad w/french dressing, roll, buttered green beans, popsicle
2 Salad bar at high school and middle school. Cold platter for faculty and elementary schools carrot and raisin salad w/cheese wedge

Wednesday
Hot turkey sandwich, mashed potatoes w/gravy, buttered broccoli or corn, fruit compote

Thursday
1 Cheeseburger, french fries, tomato and lettuce salad, fresh fruit
2 Salad bar at high school and middle school. Cold platter for faculty in elementary schools: cottage cheese w/apricots

Friday
1 Pizza boat, celery, peanut butter, potato chips, applesauce
2 Garden salad, veal

4.

SNOW REPORT

LAURENTIANS: It may be cold for skiing, but for snowmaking it's ideal. Surfaces are generally hard packed with well groomed runs offering machine-groomed powder over a solid base. All centres are in full operation. There is free skiing today at **Mt. Alta**, just south of Ste. Agathe.

EASTERN TOWNSHIPS: All centres are in full operation with the exception of **Mt. Orford** where they are changing a lift tower which should be ready by tomorrow. Surfaces are generally hard packed with machine groomed runs offering powder over a good base.

QUEBEC CITY: All centres are in full operation with the exception of **Mont Ste-Anne** where one lift on the west side is out of commission, but should be operating today or tomorrow. Surfaces are of packed powder over an excellent base with complete cover on all runs.

NEW ENGLAND: All centres are in full operation with surfaces of packed and machine-groomed powder over a frozen granular base. Cover is complete on all runs.

5.

Mr DIGWELL...All about early tomatoes



by Will Shortz

6.



Harry Shearer pre his radio show in the KCRW studio.

7.



8.

BROADWAY

TONIGHT & TOM'W 2 & 8
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9.

On television

SONIA HUMPHREY, the unflappable and gracious host of the ABC's arts series, Summer Spectrum offers another entertaining documentary at 8.25pm on Channel Two. Song Of Farewell focuses on one of the most successful collaborations in musical history – that of ageing Yorkshiremen, Eric Fenby, and Frederick Delius.

Television programmers have ensured the competition is fierce in this time slot, for the other prime choices of the evening also screen at 8.30pm.

The Kremlin Letters on Channel 10 stars Richard Boon, Max Von Sydow, Orson Wells and Barbara Parkins.

It has a tangled plot about an freelance American spy team comprising specialists in various fields. They are assigned to retrieve a bogus treaty supposedly signed by the United States and Russia and proposing the annihilation of Red China.

Also at 8.30pm on Channel Sev... brated pop ... actor, stars in Nic... film, The Man Who F... Earth.

Roeg who is known for his striking films and bad timing created a science fiction, fantasy drama with this tale of a space creature who looks remarkably like a human. After landing on earth he proceeds to build a financial empire of such proportions it is capable of devouring huge corporations.

10.

Currencies

Currency	Sell	Buy
US	0,7830	0,7930
UK	180,5875	176,6705
Can	0,9705	0,9940
Belg C	44,7000	45,7500
Belg F	44,9500	45,9500
Swiss	1,7500	1,7845
French	6,7265	6,8555
Italian	1337,0000	1363,0000
Dutch	2,4730	2,5200
Deutsche	2,1970	2,2395
Swede	6,3690	6,4915
Norw	6,1500	6,2690
Danish	7,9730	8,1245
Austrian	15,4500	15,7500
Port	105,4000	107,6000
Japanese	182,4000	186,1000
Span	123,7500	126,2500
Aus	0,8545	0,8730
NZ	1,2015	1,2295
Zamb	1,2570	1,2670
Mal	0,9940	1,0785
Zimb	0,8877	0,9042
Hong Kong	6,0855	6,1985
Indian	8,3725	8,6025



The Newspapers

____ Australia: *The Australian*

____ Canada: *The* (Montreal) *Gazette*

____ England: (London) *Daily Mirror*

____ Ireland: *Irish Independent*

____ Philippines: *Metro Manila Times*

____ South Africa: *The* (Johannesburg) *Star*

____ Trinidad and Tobago: *The Sunday Guardian*

____ USA: *The Lititz* (Pa.) *Record-Express* (weekly)

____ USA: *Los Angeles Herald Examiner*

____ USA: *The New York Times*

Telescopes ★★

by Will Shortz

Bless our stars. In each of these two separate puzzles, all the letters in the names of the objects pictured can be "telescoped" into a line of just 21 consecutive letters. How to do it? First identify the objects and enter their names on the adjoining lines. The start and/or end of each word will overlap with at least one other word in the chain. For example, if one answer were TRAP, another might be APRON, another might be PRONG, etc. The objects are pictured in random order, so part of the puzzle is to determine where each name belongs in the chain. When you've identified all the objects correctly, eliminate the overlapping letters (and the spaces between them) to form one string of 21 letters, and enter it in the telescope.

Answer Drawer, page 60

Puzzle #1









1. _____ 2. _____ 3. _____ 4. _____



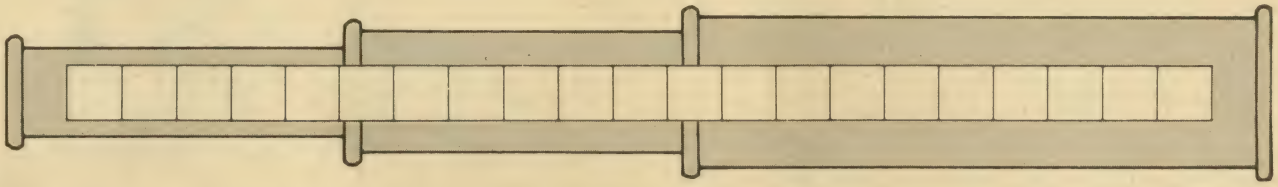




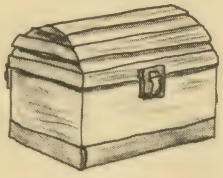




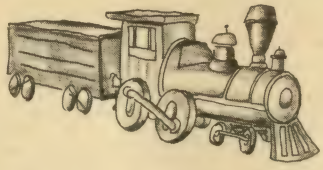
5. _____ 6. _____ 7. _____ 8. _____ 9. _____



Puzzle #2









1. _____ 2. _____ 3. _____ 4. _____

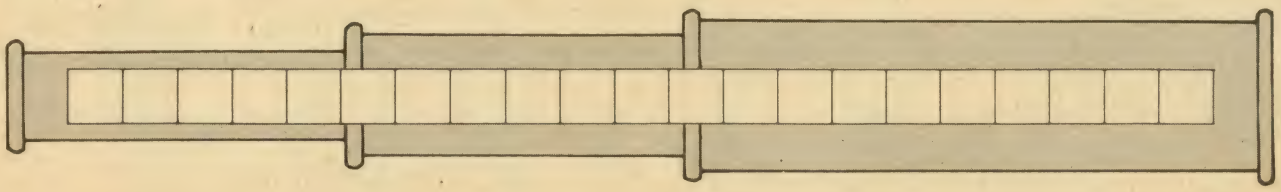


$$\begin{array}{r} 2 \\ +2 \\ \hline 5 \end{array}$$





5. _____ 6. _____ 7. _____ 8. _____



ILLUSTRATIONS BY ROBERT LEIGHTON

Cryptic Crossword ★★★

by Timothy Martin

The Warm-Up Puzzle at right contains all the basic types of clues you're apt to encounter in a cryptic crossword. Like all cryptic clues, each contains two parts: a direct or indirect definition of the answer and a second description of the answer through wordplay. The first step in solving a cryptic clue, and a great part of the fun, is to determine the dividing point between the parts. Consider some sample clues:

"That messy assortment of jewels! (9)." This is an example of an anagram. The letters in the words "that messy" can be rearranged to spell the answer AMETHYSTS, which is defined as "jewels." The word "assortment" indicates that the adjacent letters are to be rearranged. An anagram clue always contains a word or phrase (like "crazy," "reorganized," or "in a heap") that suggests mixing or poor condition.

"Fee to burn large appliance firm (6)." Here you must join two short words to form the answer. "To burn" is CHAR, "large appliance firm" is G.E., and the combination, CHARGE, is defined as "fee." This is known as a charade clue.

"We're told the English school has had dinner (5)." A famous English school is ETON, which sounds the same as the answer EATEN (defined as "had dinner"). Homophone clues like this are indicated by words like "we're told" or "oral."

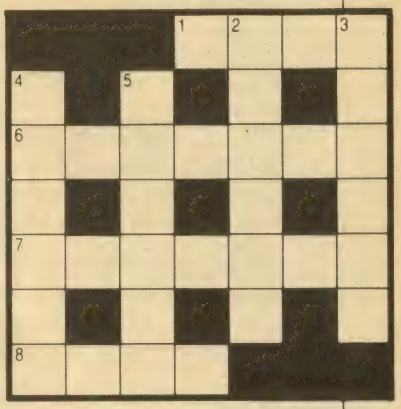
"Blue jeans material is dug up (5)." This clue is for a Down word. The answer, DENIM ("blue jeans material"), is MINED ("dug") reading upward. Other reversal clues may be signaled by words like "backward" or "in retrospect."

More hints on clue-solving have appeared in previous issues. If you are new to cryptic crosswords, start with the Warm-Up Puzzle at right and refer to the Answer Drawer for explanations.

Warm-Up Puzzle for New Solvers ★

With detailed explanations in Answer Drawer, page 60

by Emily Cox and Henry Rathvon

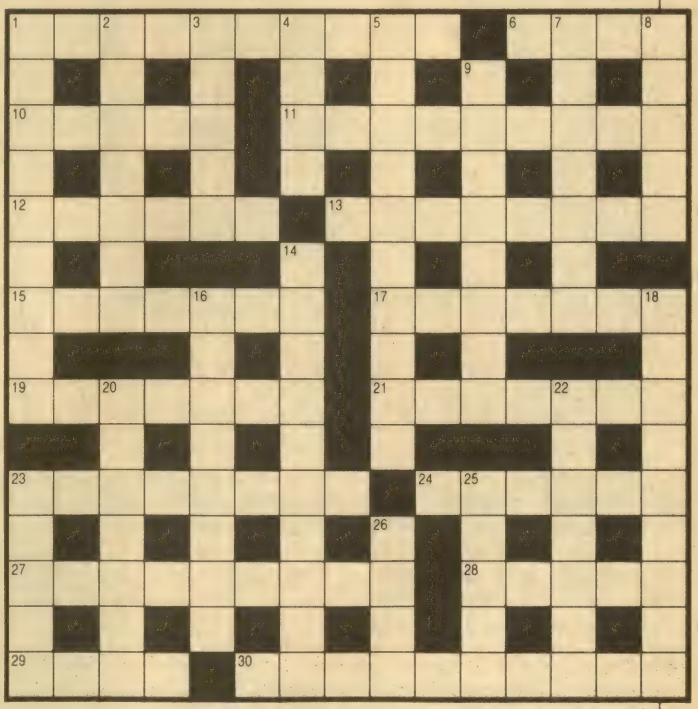


ACROSS

1 For sport, lash back (4) *reversal*
6 Headless guards in doorways (7) *beheadment*
7 She keeps warm wrap (7) *container*
8 Reportedly know a man who sailed an ark (4) *homophone*

DOWN

2 Drug is ruinous to a pie (6) *anagram*
3 Quicker dieter? (6) *second definition*
4 Each family member is human (6) *charade*
5 In Sparta, the nature goddess (6) *hidden word*



Answer Drawer, page 63

ACROSS

1 Arouse excitation! (10)
6 Round Table knight had dropped out of festival (4)
10 Paintings brought back from the East in railway cars (5)
11 Prevent store's collapsing in autumn (9)
12 Sue grasps sticker on one's back (6)
13 It's put in eyeshades for guests (8)
15 Gold I'd returned to right tax official (7)
17 Flowers are protected by plaza lease (7)
19 Vanity items go crashing (7)
21 Smooth distilled gin for nighttime (7)
23 Screwball has torture instrument and bit of poison stashed in bed (8)
24 Riding gear left in possession of groom's companion (6)
27 Keeps stamina in exercises (9)
28 Doctor and doctors' group featured in theatrical production (5)
29 A weirdo put back fish (4)
30 Lowlife broke promise, turned back, and had dinner (10)

DOWN

1 Lacking will, ties a tent sloppily (9)
2 Bugged about head of robbers being caught (7)
3 Oxen befuddled by nitrogen gas (5)
4 Hollow carafe for a restaurant (4)
5 Finishes novel: *Main Street* (10)
7 Half of crab, sole, and shellfish (7)
8 A sailor comes up with a collection of maps (5)
9 I'm involved in property appraisal (8)
14 Hobo ring starts row with bouncer (10)
16 Worthless objects from dreadful knitters (8)
18 Set aside cracked Easter egg (9)
20 Ontario lunatic gives speech (7)
22 Fashionable British princess's state (7)
23 It's seen among the stars of company at New York opera house (5)
25 Mountain chain seen in car trip around central Hungary (5)
26 Exotic leis from Hawaii, perhaps (4)

Marking Time ★★★

by Mike Shenk

A Diagramless Crossword

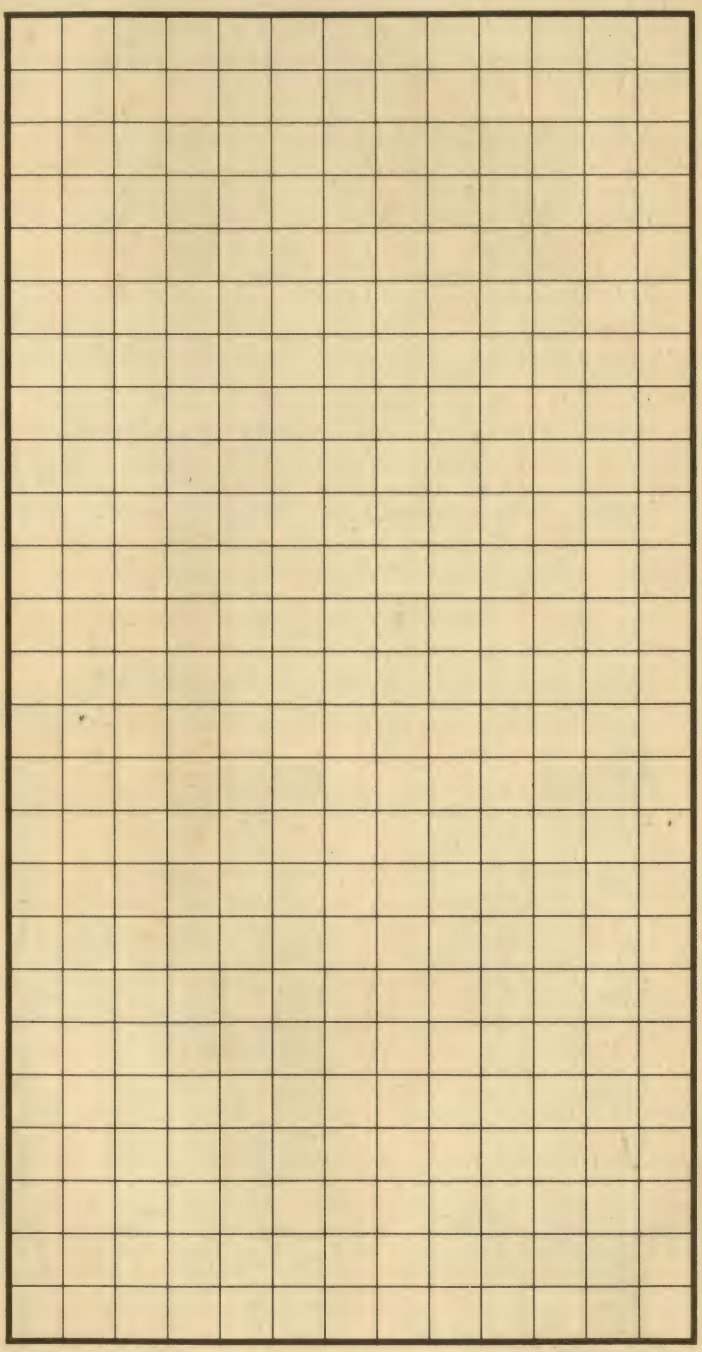
This puzzle is 13 squares wide by 25 squares deep, and has normal crossword symmetry.

ACROSS

1 *Candy-O* singers
8 Dangerous place for a bull
10 Course units
12 Texas city
13 Abyss
14 Viva ___ (oral exams)
15 Dancer José et al.
18 Affixes one's John Hancock
19 Quakes
21 Get-up-and-go
22 Subjects of physicist's concern
23 Garfield, for one
24 Speaker's platform
26 Surveillance aid
27 *Dracula* author Bram
28 At the eleventh hour
29 Prop for David
30 April collection agy.
31 It swings, according to song
33 Celery unit
34 FDR-DDE go-between
35 Bremen's river
37 Tom Terrific's "Wonder Dog"
39 Honky-tonk
40 Bury
42 Neil Simon product
43 Worker in The Tower
45 Beatles' "___ the Walrus"
46 Survive
47 Mornings
48 Showed concern
49 Actor Hunter
51 Bypassed
53 Interoffice letter
54 Happens as a consequence
55 Arched
56 Youngster
57 Pantry
59 9 to 5, often
62 Swings around end first
63 Emblem of Scotland

DOWN

1 "___ no business . . ."
2 Secretes
3 Oklahoma city
4 Roman censor
5 Baseball bat wood
6 P, to Plutarch
7 ___ up (increased in power)
8 Eccentrics
9 Supermarket slashes
10 They make people over
11 Closet's use
14 Bigwig
15 Judy Garland *née* Frances ___
16 Rural sts.
17 Noted Atlantic crosser
19 Fortify
20 Feature of many a starlet
22 Grand Ole Opry's Chet
25 Only
26 Globe Theatre poet
28 Chain part
32 Took turns
35 Suspicious
36 Narrated in a new way
37 Sir's counterpart
38 Bagel shop
39 Leaves the pad
41 They supply movies with stars
42 Olive garnish
44 Pipe cleaners, e.g.
46 Crew equipment
47 Summer cooler
48 Prompt on stage
50 Give the go-ahead
52 Garb
53 Part of LEM
55 Use the hibachi
57 "___ fall in love"
58 At the drop of ___
60 Somewhat suffix
61 The Windy City, for short



Starting hint, page 58

Answer Drawer, page 60

Tips for New Solvers

- Like most crosswords, the diagramless is symmetric; that is, if you turn the answer grid upside-down, the pattern of the black squares will look the same as it does right-side-up. So if you get stuck at the top of the puzzle, try using the pattern, reflected from what you've filled in above, to work up from the bottom.
- Each answer word is at least three letters long, and each letter is part of two answers, one reading across and one down.
- When solving, put a number in each square that starts a word, either Across or Down. Also, put a black square before and after each word (unless the word is bounded by the edge of the grid).
- When starting a diagramless, remember that the length of 1-Across must be one letter less than the number of the second word across. Thus, in the puzzle above, 1-Across is seven letters long.
- The shape of the completed grid is often appropriate to the theme of the puzzle.

—M. S.



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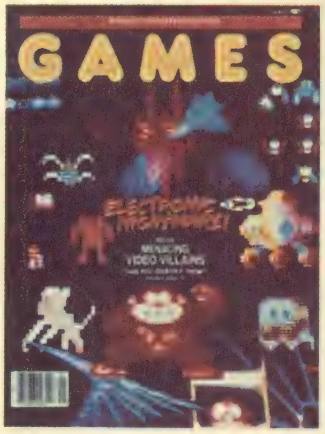
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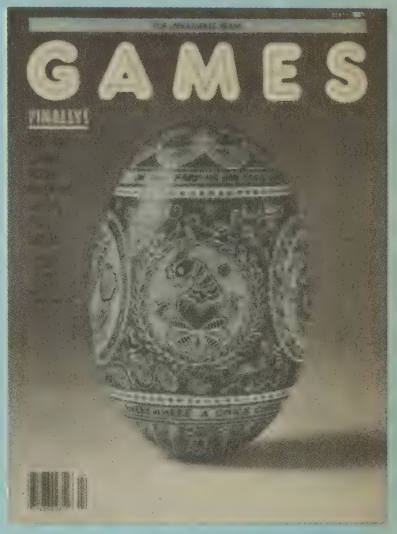
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Double Cross ★★

by Michael Ashley

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the author's name and the source of the quotation. *Answer Drawer, page 63*

1H	■	2G	3D	4U	5M	■	6R	7B	8F	9D	■	10J	11U	12O	13V	14E	15M	16H	17I	■	18C	19N	20K	21G
22Q	23I	■	24L	25O	26I	27D	■	28K	29V	30J	31A	■	32E	33Q	34U	■	35P	■	36L	37K	38O	39H	■	40M
41T	42R	43N	■	44B	45T	46I	47G	48A	49U	50Q	51M	52C	53P	54J	■	55T	56L	57I	58D	59B	60M	■	61E	62U
63F	64O	■	65M	66Q	67U	■	68J	69Q	70P	71N	72D	73K	■	74S	75C	76U	77O	78J	79M	80P	■	81N	82E	■
83I	84K	85O	■	86R	87F	88E	89K	90P	91B	92D	93S	94O	■	95N	96J	97F	98A	■	99B	100H	101K	■	102J	103G
104I	105S	106T	■	107E	108N	■	109P	110M	111A	112F	■	113L	114Q	115S	116B	117H	118T	■	119P	120U	121A	122J	■	123H
124D	125Q	■	126T	■	127V	128M	129D	130I	■	131N	132B	■	133U	134S	135M	136G	137F	■	138H	■	139G	140J	141T	142K
■	143L	144U	145R	146V	147C	■	148P	■	149C	150G	151B	152T	153K	■	154Q	155P	156G	157E	■	158M	159L	160F	161D	■
162K	163L	164A	165R	166T	167H	168M	■	169B	170L	171I	■	172M	173S	174D	175E	176J	■	177M	178T	■	179G	■	180O	181G
182L	183H	■	184A	185S	■	186O	187U	188T	189C	190Q	191V	192J	193M	■	194F	195P	196G	197A	198N	199B	■	■	■	■

A. Site of an 1883 volcanic eruption — 31 48 111 98 121 197 184 164

B. Quaver, musically (2 wds.) — 7 44 59 91 99 116 132 151 169 199

C. Mechanism on a film projector — 18 75 149 52 189 147

D. Form of tournament play (2 wds.) — 129 92 124 58 9 161 72 174 3 27

E. Radioactive decay rate — 14 32 61 82 88 107 157 175

F. Sudden incidence, as of flu — 97 160 112 194 137 87 8 63

G. Money (sl.) — 2 21 47 103 136 139 181 196 150 179 156

H. Healthy (3 wds.) — 1 16 39 100 117 123 138 167 183

I. Thankfulness — 17 23 26 46 57 83 104 130 171

J. Common judging criterion for contest entries — 96 30 140 54 192 122 10 176 78 102 68

K. Bicycle (hyph.) — 20 28 37 73 84 89 101 142 153 162

L. Entrance; boundary — 24 56 113 163 143 170 159 182 36

M. Medical eye specialist — 177 135 158 65 110 193 5 40 79 172 128 168 15 60 51

N. Hot-air vehicles — 95 19 71 198 81 131 43 108

O. Syllogism with one unexpressed premise — 64 38 77 25 12 180 85 186 94

P. Antebellum estate — 90 70 155 80 109 148 119 35 195 53

Q. Replace a sword — 22 33 50 66 69 114 125 154 190

R. Like most movies and investment bonds — 6 42 86 145 165

S. Visionary — 185 173 93 115 134 74 105

T. Captivating, charming — 41 45 55 106 118 126 141 152 166 178 188

U. English style of furniture — 76 120 62 133 144 67 11 34 187 4 49

V. Small cities — 13 29 127 146 191

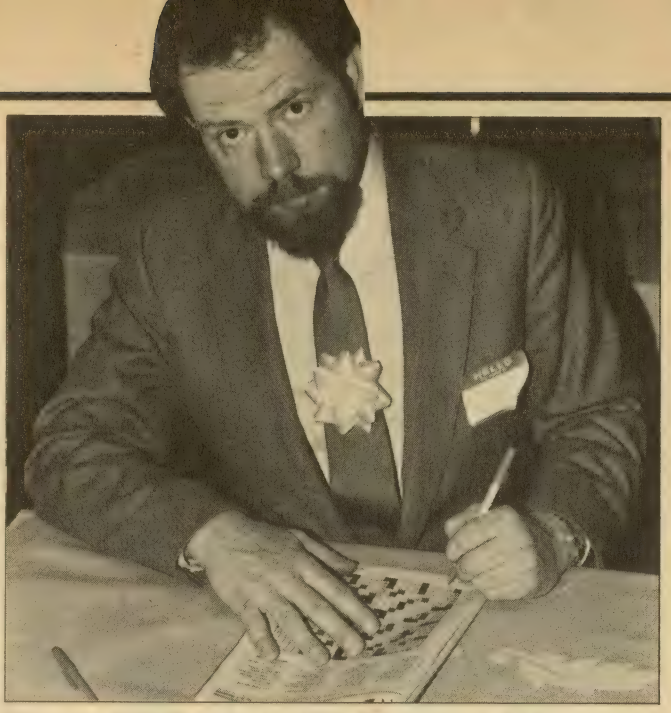
WINNER AND STILL CHAMPION

Make that two wins for Texas's crossword king John McNeill. The champion at GAMES's U.S. Open last August has won the 7th Stamford Marriott Crossword Invitational, held in Stamford, Connecticut, this past March. McNeill outsolved 118 other gridders in a weekend of competition that featured tricks, trivia, puns, and one puzzle that really threw contestants a curve (see below). Tournament runners-up were 1983 Marriott winner David Rosen (2nd) and 1982 winner Stanley Newman (3rd). They and McNeill received a combined $700 and byes to the finals of the 1984 U.S. Open, cosponsored this year by GAMES and Merriam-Webster.

What does it feel like to be a crossword champion? "It's one of those distinctions without an honor," McNeill says with a wry smile. "It's kind of like being the best postage stamp stacker."

That's one thing about crossword contesting—it doesn't build swelled heads. —W. S.

Two contest puzzles appear below and at right.



Champion McNeill: feeling like "the best postage stamp stacker."

Playing a Hunch ★★

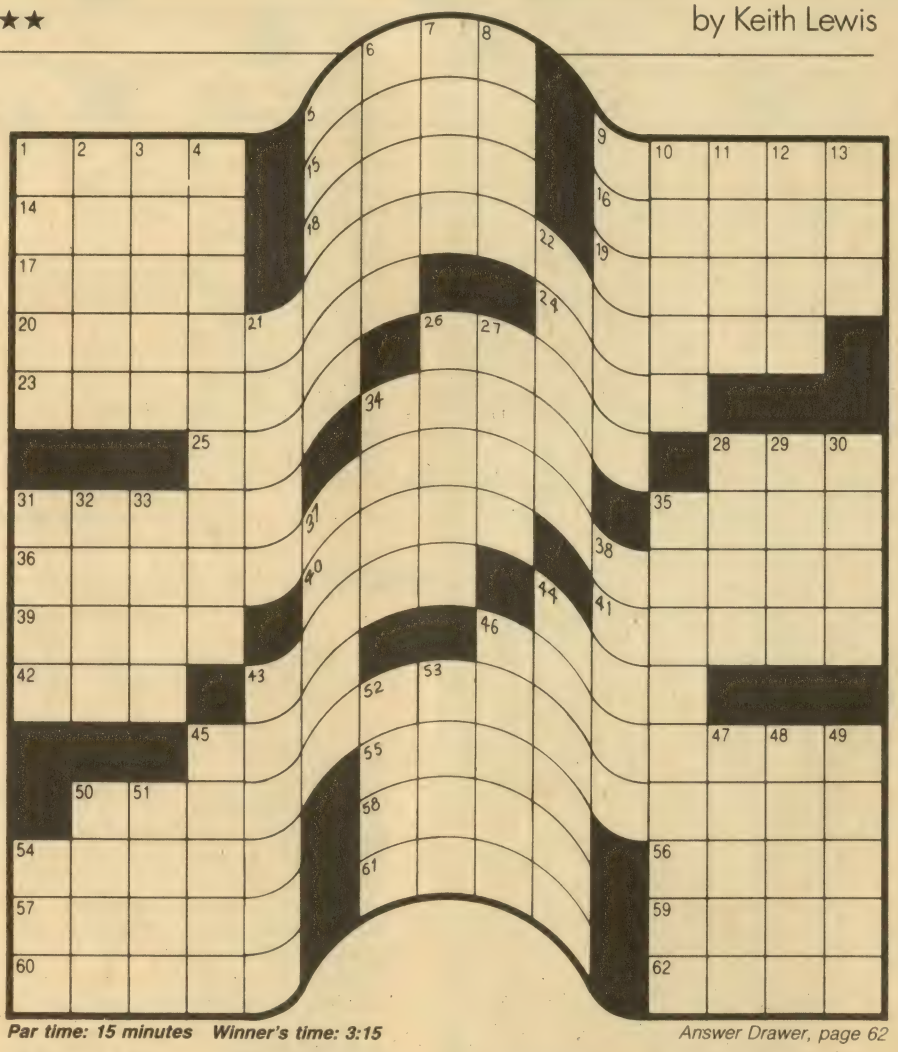
by Keith Lewis

ACROSS

1 Passing notice
5 Jam ingredients?
9 Abounds, as with activity
14 Gypsy ___ caterpillar
15 Landed
16 "Hotter than ___"
17 Former player for 12-Down
18 Nevada resort
19 Pen
20 "Thar she blows!" blowers
23 Declares
24 Speaker's stammers
25 Western treaty grp.
26 Go for a fly
28 Period
31 Went on hands and knees
34 Baker's aide
35 Shoppers' bonanza
36 Furillo's show
39 Church area
40 Evaluate
41 Robby in *Forbidden Planet*
42 Duffer's need
43 Mouthwash flavor
44 Taste
45 Author Fleming
46 Tempest locales?
50 ". . . and things that go ___"
54 Seaside souvenir
55 Angered
56 Charles Lamb
57 Saying
58 Fisherman's hope
59 Transported
60 Editor's marks
61 Mast
62 Forest part

DOWN

1 Midwest city named for an Indian tribe
2 Phony
3 Newspaper tidbits
4 "We, ___ . . ."
5 Gem weights
6 Sir Guinness et al.
7 Hockey site
8 Stash
9 Foil
10 Some royalty
11 Comedienne Adams
12 Shea team
13 Compass heading
21 Spoiled ones
22 Ticker
26 Musk, for one
27 *Time* period
28 Smear
29 It's often sold in sticks
30 Word before drive or pattern
31 Gab
32 Ready for pickin'
33 Unnamed alternative
34 Factious Mideast land
35 Most messy
37 Singer Lopez
38 Actor Keith
43 Syrup sources
44 Farm machine
45 Public relations concern
46 Eta follower
47 Leering one
48 Yours, biblically
49 Word in many university names
50 Foreshadow
51 Russian range
52 Pen points
53 Release mechanically, as a catch
54 Bounder

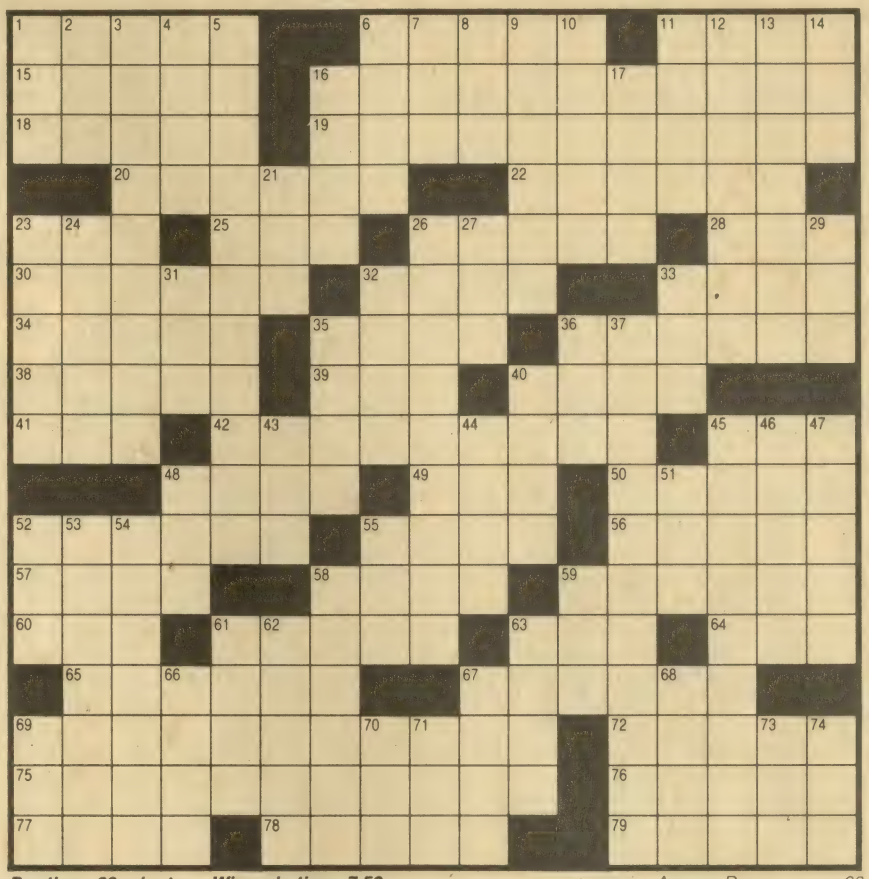


Par time: 15 minutes ***Winner's time: 3:15***

Answer Drawer, page 62

1983 in Review ★★★

by Henry Hook



Par time: 20 minutes *Winner's time: 7:50*

Answer Drawer, page 62

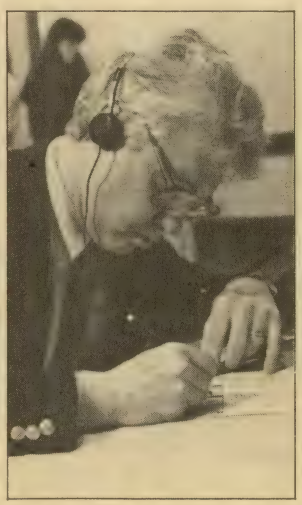
ACROSS

1 Shaftoe's route
6 Hawthorne home
11 Besieged by
15 Take the gun away
16 September '83 record breaker
18 What "my mama done"
19 Retiree in '83, after 3,308
20 More voluminous
22 Huitzilopochtli's worshippers
23 Barbra's "love" in *Yentl*
25 Descartes' conclusion
26 Tucker of Nashville
28 Lummox
30 Plagiarism
32 Vendetta
33 Vulnerable stone, in backgammon
34 Morris of *Nine*
35 It's often seen in white
36 Walking sticks?
38 Cryptanalyst's studies
39 Excellent service
40 Gridder Riggins
41 Antecedent to
42 1983 best-seller
45 Hansom
48 Unstable particle
49 *Arroz ___ pollo* (chicken dish)
50 Constellation over the North Pole
52 Garden-fresh
55 The Hitler diaries, e.g.
56 Polly and Bee
57 Lady lobsters
58 Grew lachrymose
59 How Noah counted?
60 Addnl. tel.
61 Any job, to an idler
63 Leaves in hot water
64 Memorable time
65 Tonto, for instance
67 Swastika
69 Winner in 1983
72 ___ *Entertainment*
75 69-Across's counterpart
76 Chou of China
77 "Zip-___-Doo-Dah"
78 Really wreck
79 Roxie of *The Jeffersons*

DOWN

1 Howard Carter's find
2 Lennon's lady
3 June '83 newsmaker
4 Humorist Bombeck
5 Our loss in 1983
6 Imperfection
7 Oohs' partners
8 Sound-stage area
9 Business trip?
10 Imprecise
11 Dancing girl of Egypt
12 Umpire's gaffe
13 Bill Kenny, e.g.
14 Agnus ___
16 Morning, in Winchellese
17 Bristle
21 Bright and lively
23 Swiftly
24 Subject in a college curriculum
26 Collapse into itself
27 Arctic diver
29 Faraway visitors?
31 Gluttonized
32 Perspective points
33 Coal box
35 Raggedy Ann's hair
36 Father/___ dinner
37 Controversial 1983 telecast
40 Friday 13th, some think
43 Today, in Tegucigalpa
44 Perfectly
45 Comedy catchphrase of 1983
46 Reagan, once
47 ___ nova
48 Eds.' burden
51 Channel
52 Puccini aria, "Tu, ___ di gel sei cinta"
53 *Valentines and Vitriol* author
54 Teacher's aide
55 The other woman
58 Insists on staying
59 Canto introduction?
61 CCCXVII trebled
62 Lacks
63 Utterly conformist
66 Dick Van ___
67 Believe
68 Cry of disappointment
69 Merchant's deg.?
70 Queue after Q
71 High note of puzzles?
73 Menlo Park monogram
74 Higher-ranking officer





PHOTOGRAPHS BY DON CHRISTENSEN

Technology for puzzlers: testing a new computer solving program (above); reducing tension with a Walkman (right).



The tournament's two youngest puzzlers.

Shadow Play ★☆

Next to imitating birdcalls, perhaps the most popular form of parlor entertainment a century ago was making hand shadows. The performer would direct a strong light at a blank wall and, to the delight and amazement of the audience, use his or her hands to create shadows that looked like animals. The eight hand positions shown here are from the books *Hand Shadows* and *More Hand Shadows* by Henry Bursill, both published in the mid-19th century and recently reissued by Dover Publications. The puzzle is to identify the animal that each hand position will cast on the wall. Trying them yourself might shed some light on the tougher ones—and it could even help revive this old-fashioned hands-on game.

Answer Drawer, page 58



1.



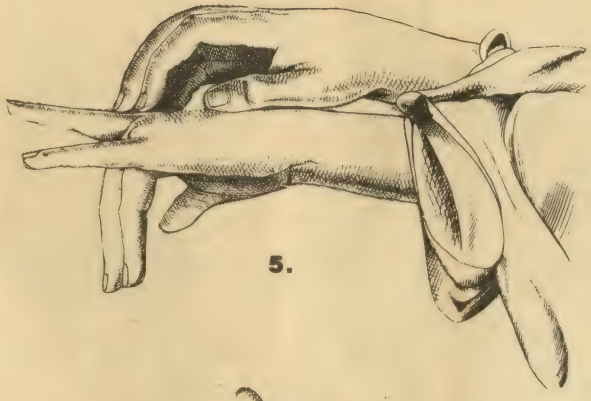
2.



3.



4.



5.



6.



7.



8.

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Warning: The Surgeon General Has Determined That Cigarette Smoking Is Dangerous to Your Health.

COUNTERFEIT COUPLES

by Mark Mazut

★★

If you pair punk star Adam Ant (right) with '40s star Eve Arden (opposite page, just left of center), you've got "Adam and Eve." If you link Edd "Kookie" Byrnes (below) with singer Peter Allen (opposite page, in top hat), you get "Burns and Allen." Here we present 16 more such bogus couples, the first partner on this page, the second on the right. If you can find all the dubious duos (none of the play-testers could), you're as up-to-date as you are nostalgic. Hint: Try both first and last names, since either may be used.

Answer Drawer, page 62



COLLAGE BY BARRY SIMON



Science Twisters ★☆

YOU CAN'T FOOL MOTHER NATURE, BUT SHE CAN SURE FOOL YOU



by Christopher P. Jargocki

Have you ever wondered why elephants have such big ears? Or why it's hard to make snowballs on certain winter days? Or why birds fly in V-formation?

These and the other questions posed here are designed to test your intuition, observation, and knowledge of the natural world. Each question is followed by three possible answers, all of which are plausible, but two of which are wrong. A little logic and a pinch of common sense should help the Smiths and the Joneses do as well as the Einsteins and Darwins on this quiz.

Answer Drawer, page 60

HOW DO YOU RATE?

14–18 correct:
Mr. Natural

7–13 correct:
You'll go camping, but only if you can bring your hair dryer and Cuisinart.

0–6 correct:
Certified urbanite

Dr. Christopher P. Jargocki is a professor of physics at Northeastern University, in Boston. His most recent book is "More Science Braintwisters and Paradoxes" (Van Nostrand Reinhold, 1983).

1 RAINBOWS

Maybe the reason no one has found the pot of gold at the end of the rainbow is that a rainbow has no end—what we see is only a part of the circumference of a complete circle. Typically, a rainbow can be seen

a) in the morning
b) in the late afternoon
c) either of the above, but not around noon

2 SNOWBALLS

Who can resist a good snowball fight now and then? Snowballs are hardest to make when the temperature is

a) right around freezing (32° F)
b) between 10° and 32° F
c) below 10° F

3 ECHOES

Since echoes are sound waves reflected off distant objects, it would seem that they'd be heard most often where distant objects are plentiful—in the mountains. But in fact echoes are heard less frequently in mountainous areas than in other places. The reason is that sound waves

a) don't travel as far in thin mountain air
b) are less likely to bounce toward the listener because mountain surfaces are angled upward
c) are absorbed by the foliage that covers the mountains

4 FULL MOON

You may have noticed that the lighted area of the full moon is twice as large as that of the moon in its first or last quarter (i.e., the half moon). But how much *brighter* is the full moon than the half moon?

a) twice as bright
b) five times as bright
c) nine times as bright

5 EARTHRISE

From the earth we can see the moon rise and set. When the day comes that we can live on the moon, will we see the earth rise and set?

a) yes
b) no
c) yes, but only at the summer and winter solstices

6 RAINDROPS

When raindrops keep falling on your head,

a) the large drops fall faster
b) the small drops fall faster
c) the large and small drops fall at the same rate



ILLUSTRATIONS BY SCOTT REYNOLDS

7 MUD BATHS

Until somebody invents a bubble bath for our porcine friends, pigs will wallow in mud. Why?

a) It's part of their mating ritual.
b) It's a convenient way to keep cool.
c) The bacteria in mud destroy parasites that can cause diseases in pigs.



8 OF MICE AND MEN

Humans consume about 1/50 their own weight in food daily. But a mouse eats fully half its own weight in a day—or 25 times as much as humans, per pound of body weight. Yet we've never seen an overweight mouse. Why not?

a) Since mice have a more rapid heartbeat and a correspondingly higher metabolic rate than humans, they burn off the calories more rapidly.
b) Mice are more active than humans and need the extra food as fuel.
c) In proportion to body weight, mice lose more heat than humans, so they need the extra calories to maintain body temperature.

9 RING AROUND THE MOON

If the weather has been clear, a ring around the moon foretells

a) rain
b) clear weather
c) neither—the presence of the ring has nothing to do with the weather



10 BIRDS AND BATS

Birds and bats fly closer to the ground before a storm. The reason for this is that

a) humid air dampens their wings and makes them heavier
b) they are looking for shelter
c) flying too high in low barometric pressure hurts their ears

11 ICE

There's a lot of ice in Antarctica, and in the Arctic too. The amount in Antarctica is

a) about the same as in the Arctic
b) three times greater than in the Arctic
c) eight times greater than in the Arctic

12 FLOATING

It's pretty easy for children of either sex to float on their backs, but adults often have a harder time of it. Which sex finds it easier?

a) Men, because they have larger lungs.
b) Women, because more of their body weight is fat.
c) Both find it equally easy (or difficult).

13 NIGHT LOWS

If the temperature hits 86° F during the day in Miami, it won't get much lower than 68° F at night. But in El Paso, a daytime high of 86° may dip to 50° at night. The reason for the difference is that

a) Miami is much closer to the equator
b) Miami is more humid than El Paso
c) Miami is more densely settled, and the resulting pollution creates an artificial "greenhouse effect"



14 FROGS

Have you ever noticed that the croaking of frogs increases just before a storm? That's because

a) they're warning their mates of the approaching storm
b) falling barometric pressure expands their vocal chambers, which triggers the croaking reflex
c) they feel most comfortable when wet, and the moist air allows them to come out of the water to croak and still feel deliciously damp

15 JUMPING FLEAS

Some fleas can jump more than a foot—a hundred times their length. If we could jump as far in proportion to our height, we'd be clearing 50-story buildings. Why can't we?

a) A flea's legs, unlike a human's, are well-designed for jumping, since they are anatomically similar to catapults.
b) A human's larger body encounters too much air resistance.
c) With increasing size, the weight of an animal increases much faster than its strength.



16 ON THE WING

Migrating birds commonly fly in V-formation. What is the reason for this?

a) That arrangement protects the group from predators.
b) The updraft created by the wings of neighboring birds reduces air resistance and therefore makes flying easier.
c) The lead bird can easily be seen by all members of the group.

17 COLD COAST

People accustomed to swimming in the Atlantic Ocean are often surprised when they visit California and find that Pacific waters are much colder. This is because

a) on the West Coast the rotation of the earth brings colder water in from the north and from the deeper part of the ocean
b) the water isn't really colder but only seems so because the sun is so much hotter
c) the high concentration of large metropolitan centers on the East Coast warms the water that is nearest the shore



18 ELEPHANT EARS

The enormous ears of the African elephant perform a valuable service. What is it?

a) They add extra surface area to help dispose of body heat.
b) They amplify sound in order to compensate for the elephant's notoriously poor vision.
c) They're useful in brushing away annoying insects.

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LOST IN THE HYPERCUBE ★★

A MAZE IN FOUR DIMENSIONS

BY R. WAYNE SCHMITTBERGER

A 3 × 3 grid, like the one used for tic-tac-toe, exists in two dimensions—length and width. A 3 × 3 × 3 cube, like Rubik's, exists in three—length, width, and depth. A 3 × 3 × 3 × 3 hypercube—in *four* dimensions—doesn't exist at all, except in the realm of theoretical mathematics.

The nine 3 × 3 grids below are as close as we can get to representing a hypercube on a two-dimensional surface. It's possible to think of the nine grids as making up three cubes, each of which is formed by mentally stacking the three grids in any vertical or horizontal row. But physically combining all three cubes in a comparable way, by somehow superimposing one upon another, is inconceivable—three dimensions are all we can visualize.

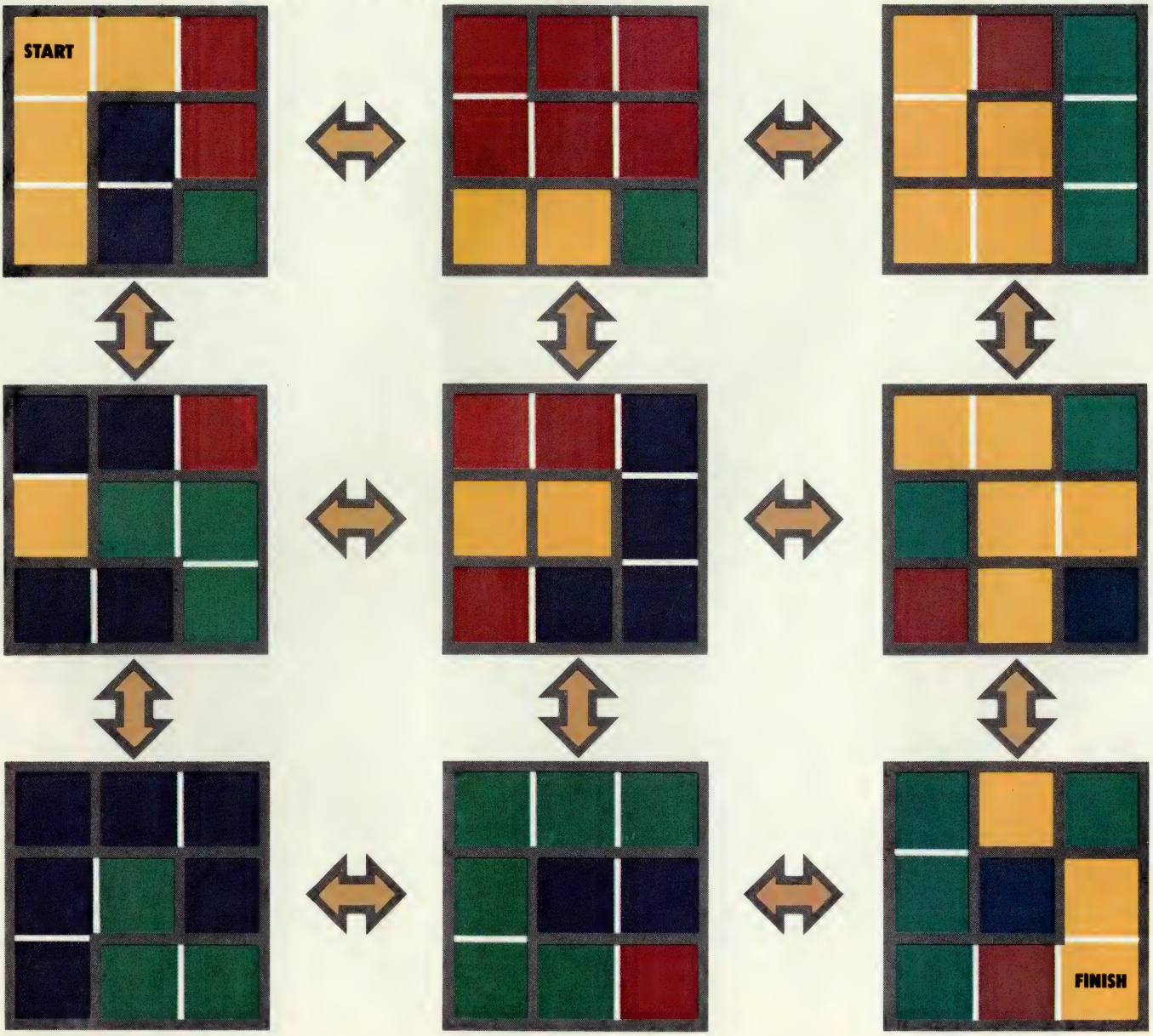
Still, within this "impossible" four-dimensional hypercube is a maze that's solvable, once you get used to weightlessness.

Within any single 3 × 3 grid, you may follow a path from any square to any other square as long as you don't cross a dark line. To jump from one grid to another, the following rules apply:

1. You may go only to a vertically or horizontally adjacent grid, as indicated by the arrows. The same grid may be visited more than once.

2. You may move only to a square of the same color, and occupying the same position in its grid, as the square you're leaving. For example, if you move downward one square from START to the left center yellow square on the starting grid, you may then jump to the similarly positioned yellow square in the grid just beneath it. Within that grid, you may move to the upper left blue square and then jump to the equivalently situated blue square on the bottom left grid, and so on.

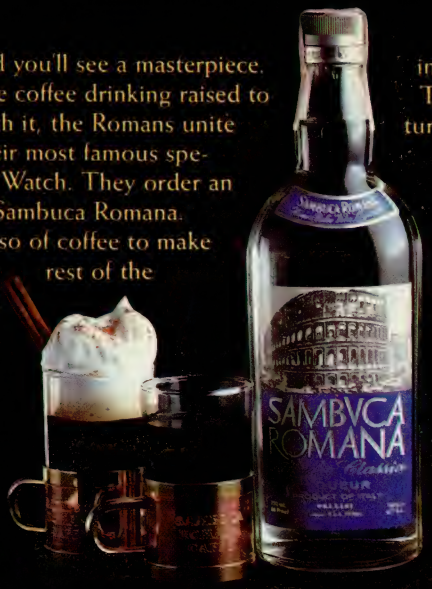
Answer Drawer, page 64



Look up in Rome, and you'll see a masterpiece. Look around, and you'll see coffee drinking raised to the level of an art. To enrich it, the Romans unite their coffee with one of their most famous specialties, Sambuca Romana. Watch. They order an espresso and they order a Sambuca Romana. One sip of liqueur, two or so of coffee to make room in the cup. Then the rest of the Sambuca Romana is tipped into the coffee and a memorable new taste is born. Try it. You don't need espresso. Sambuca Romana turns every cup of coffee into a Roman masterpiece.

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In Rome, a ceiling is more than a ceiling, and a cup of coffee is more than a cup of coffee.



GAMES & BOOKS

Edited by R. Wayne Schmittberger

Fortress by Jim Templeman and Patty Denbrook; (Strategic Simulations, Inc., on disk for Commodore 64 and Apple and Atari computers, around $35)

On the surface, Fortress is a simple, fast-paced strategy game in which two players (either or both of whom may be the computer) build castles on a 6×6 grid in an attempt to control territory. But on a deeper level, this disk allows human players to create computer extensions of themselves by "training" different computer-controlled characters to play the game: The computer will learn from its mistakes and gradually improve, until the human finds it difficult to defeat his own creation.

Each player in turn selects a square (using keyboard or joystick) on which he wants to build. Pressing a button creates a castle of his color in the square, and flags of his color on the four adjacent squares, indicating the additional territory controlled by the castle. Instead of building a new castle, a player may double or triple the strength of an existing one. An enemy castle is captured by bringing sufficient strength to bear against its square. Whoever controls more territory after a fixed number of turns (players decide how many) wins.



PHOTOGRAPH BY KIMBERLEY BUTLER

Five computer opponents are on the disk, each with its own strength and style. After a series of games, you may update their learning by adjusting the strategy tables they use to choose moves. Updated computer-controlled players can be stored on disk under new names, and later tested against their "ancestors."

The strategy tables are probably not complex enough to enable a computer player to win consistently against a strong human. When playing second, for example, the computer is not capable of adopting the strategy of imitating the opponent—which is perhaps just as well, since that strategy guarantees a tie, and can often win if the symmetry is broken on the last move of the game. But the game's limitations are minor; if anything, they add to the unpredictability and excitement of a match between two differently trained computer opponents.

Pitting your trained computer opponent against someone else's is a fascinating new mode of gameplay. Its great potential, first suggested by games like Robotwar and Worms?, is still largely unexplored. —R. W. S.

Quadwrangle (available from Hiron Games Ltd., 25 Barons Keep, Gliddon Rd., London W14, 9AT UK; $10 includes postage; available in the U.S. later this year)

Playing this fast, addictive, two-player game is like engaging in nine simultaneous tug-of-war contests in which your decisions—and the luck of the dice—determine where you are gaining and losing ground.

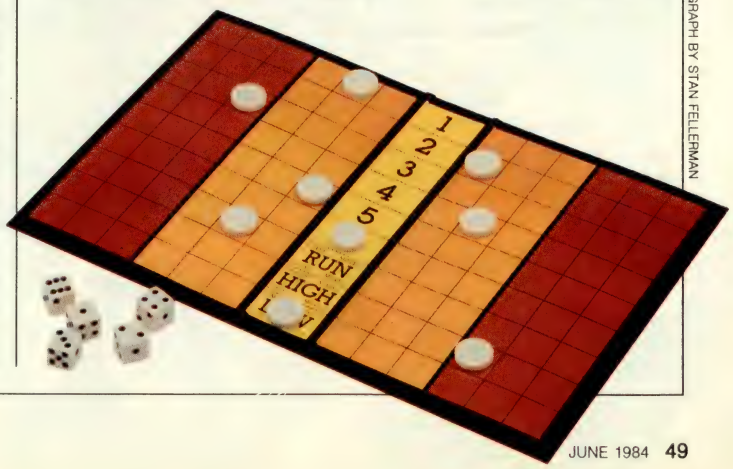
At the start, a marker is placed in the middle of each of the board's nine columns. Six columns are labeled from 1 to 6, the other three "high," "low," and "run." The first player throws five standard dice, and may rethrow any number of them a second and third time. Depending on the result of the final throw, the player moves one or more markers along the columns toward his "goal," an area on his own side of the board. The second player now throws the dice, and his final roll entitles him to move markers—often the same ones that were just moved—away from the first player's goal and toward his own.

In the first six columns, a marker is moved one space less than the number of dice showing one of those numbers. Thus if a final throw is 6-6-5-5-5, markers can be moved one space in the 6 column and two in the 5 column. But since this throw adds up to a total of 27, the player can elect to move the marker in the "high" column, which requires a throw in the 23–30 range. Similarly, the "low" column may be used on a total count of 12 or less.

To move in the "run" column requires a sequence from 1 through 5 or 2 through 6. Shooting for this is risky, since a miss leaves you very little; but if you happen to throw a run, chances are the opponent won't be able to move the marker back.

The player who gets three markers in his goal at the same time wins. But no marker is ever safe—even in a goal, a marker can be pulled out by the opponent, so the outcome of the game is in doubt until the final throw.

The strategic decisions—whether to play offensively or defensively and when to abandon one column to concentrate on another—are interesting enough to make you want to play longer. The normal playing time of 10–15 minutes can be extended—and the battle made more complicated—by requiring four markers in a goal to win, which also justifies the "quad" in the name of the game. —Sid Sackson



PHOTOGRAPH BY STAN FELLERMAN



Krakatoa (available from Xanadu Leisure, Ltd., Box 10-Q, Honolulu, HI 96816; $12.95 includes airmail postage)

This may be the first dice game in which the players' dexterity affects the outcome as much as chance and strategy. The object of the game is to score points by throwing and rethrowing (as part of the same turn) nine 12-sided dice, or "dodecas," which have blue, red, and yellow colored dots on their faces instead of numbers.

The nine dodecas actually comprise three distinct sets—white, gray, and black—of three dodecas each. The point value of a throw is determined by adding up the values of the color patterns thrown on each of these three sets of dodecas. The best patterns are named after volcanoes; naturally, the highest scoring (three yellows) is called a Krakatoa.

Each round, a player throws all nine dodecas, then makes four successive rethrows of single sets of three. On every rethrow—here's where dexterity counts a lot—the player must hit at least one of the dodecas left on the table, and must either turn that dodeca to a new face or move it at least an inch. A moderately soft playing surface (such as a tabletop covered by a towel) gives best results. With planning and accuracy, a player can greatly improve his chances of obtaining special bonuses. For example, achieving a cumulative score evenly divisible by 20 earns a "Big Quake," which has the effect of quadrupling the score of that player's next throw.

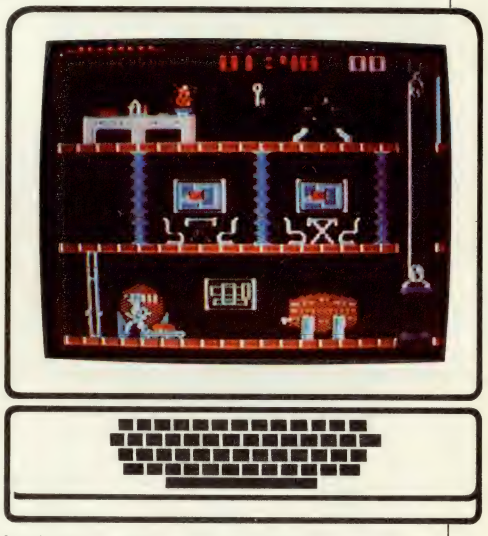
The rules are relatively elaborate for a dice game, but have been divided into an introductory Basic Game and the full Advanced Game for ease of learning. Though designed for two players, Krakatoa can accommodate up to four, and makes an interesting solitaire as well. The game was invented by GAMES contributor Prince Joli Kansil, whose other games include Bridgette and Marrakesh. —R. W. S.

The Heist by Mike Livesay (Microlab, on disk for Apple Computers, IBM PC/PCjr, Commodore 64; on cartridge for ColecoVision/Adam; available soon for Atari computers; $35–$45)

Following hard on the heels of his 1983 hit Miner 2049er, Mike Livesay's newest work is a running/jumping/thinking maze game that requires more sheer perseverance than any computer game in recent memory.

The task is to pick up (by running past) every *objet d'art* on all three floors of a museum, the rooms of which are laid out horizontally in a loop (if you keep going in the same direction you end up where you started). Roving and stationary guards, disappearing platforms, and other hazards succeed in making the job as difficult as possible—harder still on level two, truly daunting on level three.

But they're only half the problem. Locked doors, brick walls, one-way escalators, and gaps too wide to jump prevent you from breezing along from room to room—frequent detours and backtracking are necessary to get keys to open doors and to pick up paintings you couldn't reach directly. The museum is in fact an elaborate maze, only a small part of which you can see at any one time. The Apple disk—the only one available for review—contains 16 segments per level (144 rooms in all), the other versions 10. It's up to the player to remember how the rooms and floors are connected so the job can be finished before the time runs out.



Yes, there's a timer—as if things weren't tough enough. On level one, you have three and a half minutes to pick up each successive key or art object; on level two, you have two-and-a-half minutes; and on level three, you have one-and-a-half minutes.

Playing the game requires such exquisite precision at every stage that there's not the slightest danger of getting bored, even after you've solved the maze. —B. H.

ETCETERA

The Official Handbook of the 1982 World Championships edited by Henry G. Francis, (American Contract Bridge League, 1983, 176 pages paperback; available from ACBL, Box 161192, Memphis, TN 38186; $12.95 includes postage) gives a thorough, play-by-play report on the October 1982 world pair and knockout team championships held in Biarritz, France. Over 220 deals are analyzed, principally by the well-known Canadian expert Eric Kokish.

The Deck (available from Ink, Inc., 17 White St., New York, NY 10013; $25 plus $2 postage) is a set of two matching decks of playing cards embellished with sophisticated cartoons by five artists. Roz Chast illustrated the diamonds, William Steig the hearts, Arnold Levin the spades, Lee Lorenz the clubs, and Jack Zeigler the jokers and card back design.

Lunatic's Revenge (Smethport Specialty Company, One Magnetic Ave., Smethport, PA 16749; 4 plus $1.29 postage), from a line of magnetic games and puzzles ("Hip Huggers"), contains two puzzles, one using square pieces and the other hexagonal pieces. The object is to arrange them so that no areas of the same color touch. It should keep you busy on, say, a trip to Australia.



PHOTOGRAPHS BY STAN FELLERMAN


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Solving Electronic Adventures

A computer adventure game is really a puzzle, or a set of puzzles, that can be solved only by using your wits. But before you can begin solving, you'll need to learn the physical layout of the game's world, where you are in relation to other locales, and how to move around without getting lost.

Whether it uses graphics and text combined or text only, a game contains dozens or even hundreds of separate locations (each of which is called a room, whether it's an actual room, a clearing in the jungle, a path, or a planet), and in most games you must visit many of the same places several times. If you rely on memory to find your way around, you won't find your way around. What you need is a map.

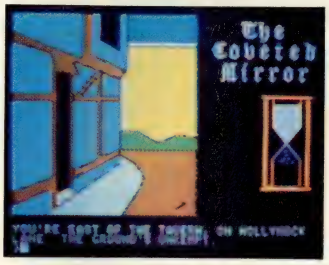
Mapping

The most effective type of map for most games is a balloon map. When the game begins, draw a small circle ("balloon") in the center of a blank sheet of paper and identify it (cell, navigation room, king's chamber, whatever). Also, note any objects to come back for later on. Enter a direction on your keyboard, and when you arrive at the new room draw another balloon in that direction (assume the top of the paper is NORTH), identify it, and connect the two balloons with a straight line. Now go back to the first room and follow the same procedure for every direction (in games with stairways and the like, don't forget UP and DOWN as well as N, S, E, W, and, in some games, NW, SE, etc.). Continue mapping as much of the game as possible without picking up objects or taking any action except those that enable you to keep going. In this way you'll get the lay of the land, enabling you to anticipate where many of the traps and obstacles are, which avenues seem the most promising, and maybe even the location of a vital item that might have taken hours to find by playing the game blind.



(A) Alice's Hovel

The more difficult games often contain twisting labyrinths or one-way passages—if you move EAST and try to return WEST, for example, you may find that you're in a completely unexpected room or that the WEST exit simply doesn't exist. For this kind of game, a different sort of map is needed. First try to find out how many rooms the game contains, and number them. Draw a simple grid, writing the room numbers across the top and all possible directions along one side. If you start in room 1 and move NORTH, which brings you to room 4, write the number 4 in the box where room 1 and NORTH meet on your grid. Continue until you've exhausted all directions from room 1, then again for each room in the labyrinth. When you're finished, your grid will enable you to get quickly from any room in the labyrinth to any other.



(B) Outside the Tavern

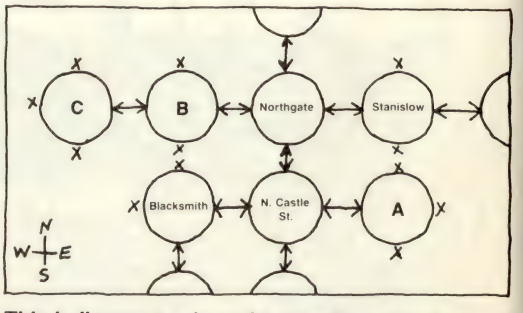
Try Everything

Remember that every puzzle has an answer, although it's often not obvious. Game designers love to put in little verbal or visual clues which, if properly understood, will help you solve the puzzle. In one of the most famous all-text adventures, Zork I (Infocom), for instance, you find a jewel-encrusted egg with a hinge and a clasp. It is clearly meant to be opened, but every time you try "open egg" you are told, "You have neither the tools nor the expertise." If you proceed by placing the egg in your treasure case, you'll miss the implication of that statement: Since *you* don't have the tools or expertise, someone else must. The solution is to let the thief steal the egg when you encounter him. A skillful lockpick, he will have no trouble opening the egg and repairing it. Later you can steal it back.

In graphic adventures, study each picture carefully for clues. Pick up everything that isn't nailed down, and if it *is* nailed down, try to remove the nails. Look under rugs and behind houses; break doors, climb trees, dig holes. You may be told, "You can't do that now," which means you may be able to do it after you've done something else or when you're carrying something you don't have now. Study the exact phraseology of the text. In Coveted Mirror (Penguin Software), for instance, the baker requests an ingredient for "chocolate moose," which you may think is a misspelling for "mousse." But much later in the game, in the castle's game room, a close look at the wall reveals a moose head made of chocolate—something you might not have noticed or thought significant were it not for the earlier verbal clue.

It's also easy to overlook the obvious. In Escape From Rungistan (Sirius), you find yourself in a forest during a snowstorm, and after freezing to death a few times and repeatedly restarting the game, you'll learn to move EAST quickly to a cabin containing a pair of skis. But you won't know how to use the skis unless it occurred to you earlier, after killing a bear in a cave, to examine the scratches on the cave walls. They are, in fact, skiing instructions. Another example is in the 2062 A.D. scenario of Time Zone (Sierra On-Line). Under the doormat of a house in Los Angeles is a key that will fit neither the door of the house nor the door of the futuristic car parked nearby. You might suppose that it fits some other door in some other scene, maybe even in a different era. But if you notice that the car has a *trunk* and try the key again, the trunk will open to reveal a load of dynamite.

Sometimes you have to try the same thing two or more times before it finally works. In Zork I you must take an axe



This balloon map, keyed to the three photos above, shows how to get from the hovel of Alice Always-Home (A) to the Tavern (C) in The Coveted Mirror. In the mapping phase, don't examine or pick up anything. Here, if you stop to get the object outside the Tavern (B), it will promptly be stolen when you go inside.

PHOTOGRAPHS BY KIMBERLY BUTLER

away from a troll. If you try "Kill troll with sword," he is momentarily stunned but recovers to threaten you again. When you enter "Kill troll with sword" a second time, he accommodatingly dies and leaves you his axe.

Trying everything is the only way to be sure of not overlooking something, but you'll occasionally run across a red herring—an object or room that seems to require some action but is there only to distract you. Gruds in Space (Sirius), for instance, contains a number of houses, including a barracks, whose residents invariably tell you, "Go away, human." After you've tried every conceivable way of getting into those houses, you realize that they're just window-dressing. (At such times you may want to vent your frustration by insulting the computer. Don't be surprised if you get insulted back. For some of the interesting dialogues we've had with our computer, see "It Does Not Compute," at right).



(C) In the Tavern

Logic and Experience

After you've played a few adventure games you'll have gained an understanding of how game designers think and how they differ from one another. Once you've learned how to get inside a designer's head, even the most difficult game will be solvable.

One example is Proving Ground of the Mad Overlord, the first of the Wizardry scenarios (Sir-Tech). For vanquishing a difficult group of monsters you are awarded a treasure called the Deadly Ring. Since you receive it as a reward, you're likely to think that wearing it confers special powers or that you'll need it in some future encounter. But if you've played other games designed by Wizardry's Andrew Greenberg and Robert Woodhead, you'll know how devious they are. The Deadly Ring is one of their greatest traps: Very gradually, as the game progresses, whoever wears it grows weaker and weaker, not understanding why, and finally dies, poisoned by the ring. Even if the adventurer gets wise to the ring's curse, his knowledge is of no use, for the ring cannot be removed in the dungeon. Many novice players have lost their best characters to this insidious trap. But experienced players, attuned to the designer's thinking, will approach such "treasures" with caution and proceed accordingly.

There is no feeling of satisfaction quite like that of completing an adventure game successfully. Indeed, it's the only kind of computer game that you can actually win—action games almost always beat you in the end, however high your score. In an adventure game your only way of knowing how good you are is the time it takes you to complete it. A novice may take several weeks to finish even a relatively simple game, but a top expert can complete the average game in a matter of hours.

Remember, no matter how difficult a problem may seem, there's always an answer. Paste this sign just above your monitor: TRY EVERYTHING!

Roe R. Adams III has solved the 6-disk, 12-sided Time Zone in a record seven days. This article was adapted from "Digital Deli" edited by Steve Ditlea (Workman Publishing).

It Does Not Compute

In trying everything to get past an obstacle or take a needed object from a recalcitrant alien, you often find yourself entering commands that are patently ridiculous. But you enter them anyway, figuring "Why not? Nothing else seems to work." And what a nice surprise you get when, for instance, you shoot a pistol in desperation at a massive tree—and see it fall to form a bridge across a river that's had you stumped.

But sometimes a silly command—or even just a simple wrong try—elicits a testy rebuke from the computer (a.k.a. game designer). Encountering a frog in a bog, we tried feeding it, killing it, hitting it, bribing it, moving it, taking it, talking to it, and even eating it—all to no avail. Then we had an inspiration prompted by a childhood memory.

Player: Kiss frog.
Computer: Isn't that a little corny?

Another time, we spied an interesting-looking old man at the other end of a large room. He surely had something to tell us, so:

Player: Speak to old man.
Computer: Shouting across the room might work in Abilene, but not here.

That response was a hint: We could talk to the old man if we got closer. The computer's smart-alecky comments often contain such hints. We once found ourselves at a gorge, and crossing it was the only way to make progress. But how?

Player: Jump gorge.
Computer: The gap is 10 feet longer than the world record for the standing broad jump.

Which implied that the way to get across was with a *running* broad jump.

Just as often, though, a wrong try can be unceremoniously shot down.

Player: Kill robot.
Computer: Fat chance. This thing is a R-O-B-O-T.

Or, in another game, in which we were trying without success to find a way of getting into a wagon:

Player: Sit.
Computer: You are too young to be pooped already. Get it in gear.

A corollary to the cardinal rule of trying everything is to examine everything. Usually when an object is of no interest, the computer simply says so. But not always.

Player (in a meadow): Look grass.
Computer: The grass is greener somewhere else.

In another game, we entered a room that seemed to contain nothing of interest, and the only exit was the way we had come in. But we figured the room must have a purpose, so we tried to dig a hole, remove the door, say a password, and finally:

Player: Look walls.
Computer: If you're frustrated, try climbing them.

Different games may project diametrically opposite world views. In one, the only way to get a rope away from an alien was to steal it. But in another, we were bluntly chastised.

Player: Take coconut.
Computer: The coconuts are not ours to pick as we please.

A game's vocabulary is usually limited to a verb/noun combination, but some games allow the use of prepositions and objects (such as "Give gold to wizard"). Often, however, it's hard to find exactly the right words to make the computer understand what you want it to do. Sometimes the machine says simply, "I don't know how to do that," or "I can't," or "You can't," or even an abrupt "No." At other times you may find yourself stuck in a no-exit dialogue that recalls some old comedy routine. Like the time we couldn't find a way to get past an angry bull.

Player: Tranquilize bull.
Computer: I do not know how to tranquilize.
Player: Think.
Computer: You cannot think.
Player: Fool me.
Computer: You cannot fool me.

And finally, just to end it:

Player: Quit.
Computer: You cannot quit.

Well,that's true enough. But if your frustration builds to such a level that you want to curse the machine, first consider the consequences.

Player: &¢@$#?!!
Computer: A good angel appears and says naughty naughty. As you have sinned, I will move some of the objects you carry. REPENT!

—B. H./J. D.

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HALL OF FAME

Seen Around Town

What do these famous people have in common?

Shirley Temple
John Hancock
Mae West
Napoleon

—R. L.

Answer Drawer, page 62



NUMBER PLAY

A Fruitful Deal

On a tropical island, I "spent" 25 rocks. Papayas cost more rocks than guavas; mangoes cost more than twice as much as papayas; one mango costs less than three guavas. How many rocks did I spend for each fruit?

—Guney Mentes

Answer Drawer, page 62

TWISTS

State the State

If, according to a certain rule, ALBANY is in NEW YORK, and SANTA MONICA is in CALIFORNIA, in what states are the following?

1. ALIQUIPPA
2. KODIAK
3. ARCOLA
4. HARBOR
5. BOONE
6. OVID

—Alex Dunne

Answer Drawer, page 62

FOR THE RECORD

Days of Our Lives

What day of the week is *not* represented in the following list?

1. Mother's Day
2. Thanksgiving Day
3. Election Day
4. The first day of Lent
5. Labor Day
6. TGIF

—Raymond D. Love

Answer Drawer, page 62

TOUGH NUTS

Vial-able Alternatives

The king has just sentenced you to death, but as happens so often in this sort of puzzle, you are given an opportunity to improve your chances of survival.

You are handed 10 vials labeled "poison" and 10 labeled "water." You are told that you may distribute the vials any way you wish between two identical boxes, but that you must put at least one vial in each box.

The executioner will first randomly choose one of the boxes, and then randomly choose one vial from that box, the contents of which you must drink.

How can you distribute the 20 vials in order to maximize your chances of survival?

—Gregg Siegel

Answer Drawer, page 62

TRIVIA

The Trouble With Harry

Hollywood is just wild about Harry, giving us lots of memorable characters who bear that name.

Can you name the actor who played Harry . . .

1. Lime in *The Third Man*
2. Frigg in *The Secret War of Harry Frigg*
3. Palmer in *The Ipcress File*
4. Callahan in *Dirty Harry*
5. Longbaugh in *Butch Cassidy and the Sundance Kid*
6. Combes in *Harry and Tonto*
7. Houdini in *Houdini*
8. Truman in *Give 'Em Hell, Harry*
9. Dighby in *Harry and Walter Go to New York*
10. James in *The Benny Goodman Story . . .?*

—Keith Lewis

Answer Drawer, page 62

WORDPLAY

Con Game

Take two words at a time from the list below and add them to the prefix "con" to form 10 "con-" words. We've already crossed off "ant" and "cord" to make "concordant."

able	rant
~~ant~~	ration
ate	rent
~~cord~~	sate
cur	scent
den	script
flag	side
form	solid
gent	sum
ion	tin
mate	vale

—Carlene Stroup

Answer Drawer, page 62

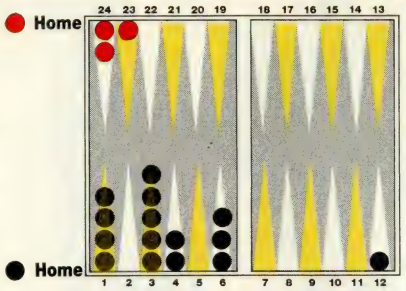
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 Antagonizer of man.
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 Hat worn for the sake of form;
 Secrets we are not to know.
3. Took off my hat
 And sat, I confess.
 Paid for something,
 Left with less.
4. With a book I've never read,
 I only sit and scratch the head.

—Tom Jolly

Answer Drawer, page 62

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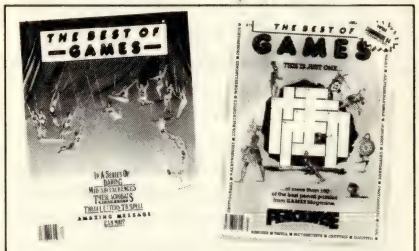
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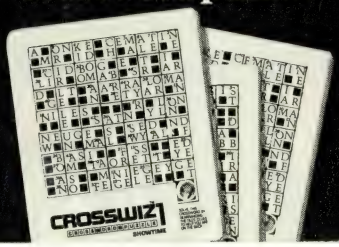
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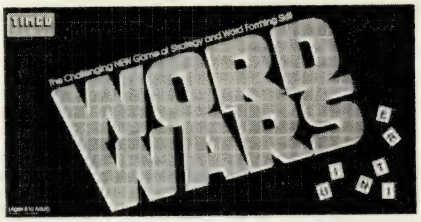
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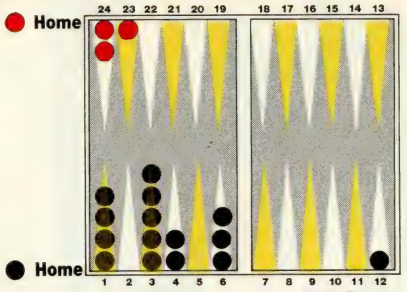
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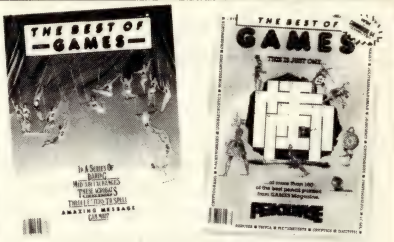
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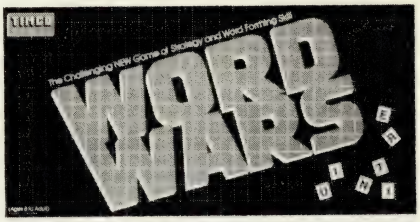
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ANSWER DRAWER

26 On the Road Word List

STOP
INTERSECTION
NO PASSING ZONE
DEER CROSSING
KEEP RIGHT
STEEP GRADE
SCHOOL CROSSING
NO PARKING
ROAD NARROWS
ONE WAY
DIVIDED HIGHWAY
SLIPPERY WHEN WET
RAILROAD CROSSING
NO U TURN
PEDESTRIAN CROSSING
DO NOT ENTER
HOSPITAL
LOW CLEARANCE
YIELD
RIGHT TURN
CURVE AHEAD
NO LEFT TURN
TWO-WAY TRAFFIC
MERGE

27 Pop Quiz

1. Popcorn
2. Popeye
3. Lollipop
4. Soda pop
5. Pop fly
6. Poplar
7. Snap, crackle, pop
8. Pop gun
9. Boston Pops
10. Popover
11. Population
12. Pop the question
13. Pop-top
14. Poppycock
15. "Pop Goes the Weasel"
16. *Hellzapoppin'*

12 Logic

The Skoggy-Sled
In the front, Arne is to the left of Errin. Next, Coco is to the left of Dorri. At the rear, Barri is to the left of Fifi. Arne and Dorri are gray, Barri and Coco are white, and Errin and Fifi are tan.

The Dinosaurs of Arcturus
The Redvelvet weighs 120 kg and lays tan eggs that incubate at 70°.

The Shibbishee weighs 140 kg and lays blue-spotted eggs that incubate at 80°.

The Quackosaur weighs 90 kg and lays yellow eggs that incubate at 90°.

The Plumfoot weighs 110 kg and lays green-spotted eggs that incubate at 100°.

The Denebian Statuettes
Renewal was carved in jade by Myro in 2018.
Freedom was carved in amethyst by Hwa in 2025.
Strength was carved in obsidian by L'Mong in 2032.
Balance was carved in tourmaline by N'Ying in 2035.
Wisdom was carved in estonite by Kvarto in 2042.

36 Marking Time Starting Hint

The answer to 1-Across starts in the fourth square of the top row.

25 Pathfinder

1E Ambrosia
2E Roy
3N Steamboat
4S Network
5S Oasis
6N Avert
7E Open
8N Save
8W Sappho
9S Irate
10S Tat
11N Paltry
12N Riposte
13S Bleach
14E Photography
15N Unreal
16S Blessed
16W Beta
17N Elbow
18N Gun
19W Toothpaste
20S Lever
21N Pack rats
21S Pave
22N Theatre
22S True
23N Area
24E Auras
25S Tomboy
26E Awe
27E Sob
27W Stewardess
28N Motto

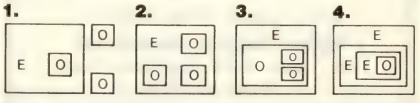
T	E	A	M	B	R	O	Y	R	E	V
S	■	N	■	O	■	S	■	T	■	A
O	P	E	T	A	S	I	A	L	A	S
■	I	■	W	■	T	■	E	■	P	■
A	R	B	O	R	A	T	R	N	P	H
T	■	L	■	K	■	A	■	U	■	O
E	B	E	A	C	H	E	R	G	O	T
■	L	■	P	■	T	■	A	■	O	■
S	E	V	A	U	R	A	P	H	T	T
S	■	E	■	E	■	S	■	Y	■	O
E	D	R	A	W	E	T	S	O	B	M

2 Your Move

Simple Addition
The total is 4,100, though nine people out of ten, when solving aloud as directed, come up with an answer of 5,000.

Triplets
Our list of nine (alternates are possible in some cases): deft, afghan, laughing, hijack, calmness, hymnody, inoperative, first, astute.

A Boxing Lesson
There are at least four different solutions, so you should collect at least 52 silver dollars. All solutions use "nested" boxes—that is, at least one box must be placed inside another box. In the diagrams, E = an even number of dollars; O = an odd number of dollars. In a valid solution, each box must contain at least one coin of its own.



Name Change Operations
1. (e); 2. (a); 3. (f); 4. (h); 5. (b); 6. (d); 7. (c); 8. (g)

Forth and Back
The six-letter word STRAPS yields TRAPS, STRAP, TRAP, RAPS, and RAP reading forward; PARTS, PART, ARTS, SPAR, ART, SPA, and PAR reading backward. Total: 53 points.

20 From Bond With Love

Bond Issue
1. (d) Fleming started writing *Casino Royale* "because my mental hands were empty and as a counterirritant, or antibody, to my hysterical alarm at getting married at the age of 43."
2. (b) At first, Fleming's conception of the character called for a dull and uninteresting man to whom exciting things happened. He wanted the name to be just as dull, so he "borrowed" the name "James Bond" from the author of *Birds of the West Indies*, one of his favorite books.
3. (b) Fleming knew Niven and had always pictured this suave and urbane actor as the perfect Bond.
4. A newspaper cartoon. In the spring of 1957, the London *Daily Express* ran the comic strip version of *Casino Royale*, which was soon followed by other Bond strips. In the 1960s, new adventures were written for the superspy, but shortly afterward, the strip stopped running.
5. (c) British intelligence used the "double O" to classify top-secret documents during World War II, and Fleming was closely involved with them during the war.
6. a (1), b (8), c (7), d (9), e (3), f (5), g (6), h (4), i (2), j (10)

Beauties and the Beasts
1. SPECTRE stands for "The Special Executive for Counter-Intelligence, Terrorism, Revenge and Extortion."
2. a (8), b (2), c (6), d (1), e (3), f (5), g (4), h (7), i (10), j (9)
3. a) Jaws (*Moonraker*)
b) Kamal Khan (*Octopussy*)
c) Col. Rosa Klebb (*From Russia with Love*)
d) Doctor No (*Doctor No*)
e) Scaramanga (*The Man With the Golden Gun*)
f) Ernst Stavros Blofeld (*You Only Live Twice*)

Double-O Exposure
1. (c) According to Fleming's biographer, James Bond, though British to the core, was born in Wattenscheid, near Essen, in Germany. His father was working there at the time, so his mother was unable to return to England for the birth.
2. In an early novel, Bond describes his perfect martini as containing three measures of gin, one of vodka, half a measure of "Kina Lillet," shaken very well until ice cold and served in a deep champagne goblet with a slice of lemon peel.
3. 70; Balkan; Turkish; Morland's of Grosvenor Street; 50; three gold bands.
4. (a)

Minding Your Q's
1. a (2), b (1), c (6), d (5), e (3) f (4)
2. (b)

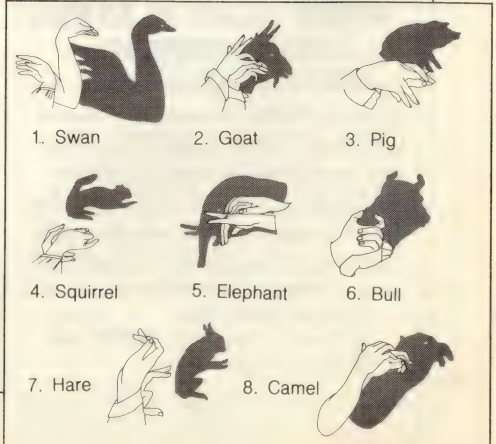
Male Bonding
1. Thomas Sean Connery was born in 1930, the son of a Scottish truck driver. Roger Moore was born in 1927, the son of a British policeman.
2. (b) It was for the third installment of the CBS television series *Climax*, and it aired on Thursday, October 21, 1954. Barry Nelson played an American 007 in a one-hour adaptation of *Casino Royale*.
3. (b) Cast against type, Woody Allen plays the evil Doctor Noah.

Spy Craft
1. a (2), b (1), c (4), d (3), e (6), f (7), g (5)
2. 1. (c), 2. (b), 3. (a), 4. (d)

Crashes and Splashes
1. (c)
2. (b) Operating a 585-pound Glastron GT-150 boat, stuntman Terry Comeaux drove the specially rigged boat up a ramp situated at a curve in the middle of a 50-foot-wide canal. Hurtling at a speed of around 56 m.p.h., Comeaux took the boat up the ramp and sailed for a distance of 110 feet, clearing first water and then land at a height of 12 feet.
3. (c) It measured 374 feet long, 160 feet wide, and 53 feet high.
4. (c) They also consumed 27,000 eggs and 40,500 rolls.

Excerpted from *The James Bond Trivia Quiz Book* © 1984 by Philip Gurin. Reprinted courtesy of Priam Books, Arbor House.

40 Shadow Play




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44 Science Twisters

1. RAINBOWS. (c) The center of the circle formed by a rainbow lies below the horizon along a straight line passing from the sun through the viewer's head. As the sun goes down, the center of the circle goes up. When the sun is nearest the horizon, in the morning and afternoon, the rainbow is at its greatest height and appears to be a semicircle; but when the sun is high, as at noon, the rainbow vanishes below the horizon.

2. SNOWBALLS. (c) To make a snowball you apply pressure with your hands, which melts enough ice to produce a layer of water between the snowflakes. With the pressure removed, the flakes stick together because the water forms a cohesive bond that is reinforced by the refreezing water. When the temperature is very low, the pressure required to melt the ice is too great to be exerted with the hands.

3. ECHOES. (b) To be audible, sound waves must be reflected in the listener's direction. If you stand at the foot of a hill and shout or clap your hands, the sound waves will bounce off the hill at an upward angle—that is, away from you (like light off a mirror, or a pool ball off a cushion)—because the angle of reflection is always equal to the angle of incidence. In mountainous regions, all the reflecting areas are angled away from you (unless you happen to be atop one of the mountains)—so the sound waves never reach you.

4. FULL MOON. (c) The lunar surface is full of craters, mountains, and other irregularities. When lit obliquely by the sun, as during the first and last quarters, these features cast long shadows, increasing the dark areas of the surface. But when the sun illuminates most of the lunar surface from directly above, there are fewer such shadows, and the brightness increases by a factor of nine.

5. EARTHRISE. (b) The moon's rotation is synchronized with its revolution about the earth, which is why we always see the same hemisphere of the moon. Therefore, to an observer on the moon, the earth will always appear to be at the same point in the sky, although it will appear to rotate—both hemispheres of the earth will be visible (at different times).

6. RAINDROPS. (a) A falling drop is subject to two opposing forces: gravity and air resistance. The constant force of gravity pulls the drop at increasing speed, but as the drop falls faster it is acted upon more strongly by air resistance—until finally air resistance and gravity equal a net force of zero. At this point the drop falls at a uniform rate, its "terminal speed." If the size of the drop is increased, the force of gravity increases proportionally to the drop's volume, that is, to its radius cubed. Air resistance increases too, but proportionally to the cross-sectional area of the drop; that is, to its radius squared. This means that a larger drop can reach a greater terminal speed before air resistance catches up with it.

7. MUD BATHS. (b) Pigs, having no sweat glands, are not cooled by the evaporation of perspiration. Immersion in mud keeps them cool.

8. OF MICE AND MEN. (c) The heat loss in animals is mainly through their surface, and so varies in proportion to an animal's surface area. Heat production, however, occurs in all cells, and varies in proportion to an animal's volume. Since volume (proportional to the cube of an animal's average length) increases faster than surface area (proportional to the square of an animal's average length) as the size of an animal increases, small animals like mice have a much greater surface-to-volume ratio than people do, and lose a great deal more heat in proportion to their body weight. To maintain their correct body temperatures, therefore, mice must consume proportionally more calories (which are a measure of heat energy).

9. RING AROUND THE MOON. (a) Ice crystals form in high-altitude cirrus clouds that precede a rain front. These crystals refract light from the moon and give the appearance of a ring.

10. BIRDS AND BATS. (c) The ears of birds and bats are very sensitive to the lower air pressure that occurs when a storm front is approaching. They fly lower at such times to avoid the ear pain they would suffer at higher altitudes, where the air pressure is even lower.

11. ICE. (c) Antarctica is a land mass, and land is a poor conserver of heat (which is why winters are harsher deep inland). But Arctic ice lies over an ocean, and water conserves heat well. As a result, much less ice is formed in the Arctic.

12. FLOATING. (b) The body weight of women is about 25 percent fat on average, that of men only 15 percent. Since fat is lighter than water, the overall density of the female body is less than that of the male body—which means women can float more easily. Also, since men have more volume around their shoulders than anywhere else, their center of buoyancy is in their upper body, far from their center of gravity. A woman's center of buoyancy is in the large pelvic area, closer to her center of gravity, which gives her more stability while afloat.

13. NIGHT LOWS. (b) The earth radiates most of its energy in infrared wavelengths, and water vapor is an excellent absorber of infrared radiation. Miami's more humid atmosphere absorbs and therefore retains heat, whereas in El Paso's drier air the heat of the day dissipates much more rapidly when the sun goes down.

14. FROGS. (c) To be comfortable, frogs have to keep their skin wet, which is why they live around ponds and dive underwater every so often. But frogs can't croak underwater. Since storms are often preceded by humid air, a frog's skin can remain moist even while the frog stays out of the water.

15. JUMPING FLEAS. (c) An animal's weight varies according to the cube of its volume, its strength according to the square of its muscle-and-bone cross-section. A human's strength relative to his size and weight therefore keeps him earthbound. If a flea's size were increased a thousandfold, its weight would be a billion times greater but its strength only a million times greater. The poor thing would be crushed by its own weight.

16. ON THE WING. (b) A bird flies by pushing down on the air below it, which creates an updraft that helps nearby birds stay aloft. Calculations prove that 25 birds in formation can fly about 70 percent farther than one bird flying solo.

17. COLD COAST. (a) The Coriolis force, caused by the rotation of the earth, forces water away from the California shore toward the southwest. The departing water is replaced by colder water rising from depths of several hundred feet and by cold currents of water flowing down from the north.

18. ELEPHANT EARS. (a) As the largest land mammal on earth, the elephant has less surface area compared to his weight than smaller animals. Living in a hot climate, he needs the larger surface area provided by his ears to dispose of extra body heat through radiation and evaporation.

34 Telescopes

#1 The objects pictured are:

1. Rabbit
2. Lips
3. Crab
4. Lyre
5. Italy
6. Seal
7. Reel
8. Rabbi
9. Ellipse

The telescope: CRABBITALYREELLIPSEAL

#2 The objects pictured are:

1. Chest
2. Owl
3. Train
4. Torch
5. Rainbow
6. Error
7. Bowler
8. Orchestra

The telescope: TORCHESTRAINBOWLERROR

35 Cryptic Warm-Up Puzzle

ACROSS

1. GOLF. The answer GOLF (defined as "sport") is FLOG ("lash") written in reverse, or "back."
6. ENTRIES. The word ENTRIES ("doorways") is SENTRIES ("guards") without its first letter, or "headless."
7. SHEATHE. If the word SHE holds, or "keeps," the word HEAT ("warm"), the result is SHEATHE ("wrap").
8. NOAH. The answer NOAH ("man who sailed an ark") sounds the same as the phrase KNOW A. The word "reportedly" indicates the homophone.

DOWN

2. OPIATE. The word OPIATE ("drug") is an anagram of the phrase TO A PIE. The word "ruinous" suggests the rearrangement of letters.
3. FASTER. The word FASTER in two different senses means "quicker" and "dieter."
4. PERSON. The word PERSON ("human") is a combination of PER ("each") and SON ("family member").
5. ATHENA. The answer ATHENA ("goddess") is literally found in the letters of "SpartA THE NAture."

30 23 Skiddoo

1. +
2. J (J. Edgar Hoover)
3. ↄ (C = "sea")
4. ⅃ (L.A.)
5. V
6. S (S + table = stable)
7. n, d, h (*Gandhi*)
8. i
9. O, U (you)
10. 7, 1, 1 (7–11)
11. ∀,∀, ⅎ,∀, (Tennessee also begins with T.)
12. 9 (*nein*)
13. The message reads TURNABOUT IS FAIR PLAY!

30 Building Blocks

H	O	R	S	E	B	A	C	K
C	R	I	T	E	R	I	O	N
P	E	N	T	H	O	U	S	E
R	E	G	I	S	T	R	A	R
F	A	L	S	E	H	O	O	D
E	T	I	Q	U	E	T	T	E
C	O	N	S	T	R	A	I	N
M	A	G	N	E	S	I	U	M

36 Marking Time



7 Gamebits

Wretched Excess
The fake recipients of the Golden Fleece Awards are 7 and 8.

29 Across the Board

T	E	D	♞	■	S	♝	I	N	G	■	A	B	E	L
I	R	I	S	■	H	E	N	N	A	■	R	O	V	E
F	L	O	E	■	R	E	F	E	R	■	C	L	E	O
F	E	R	R	O	U	S	■	■	D	E	H	O	R	N
■	■	■	R	I	G	■	J	O	E	Y	♗	■	■	■
S	E	D	A	N	S	■	A	M	N	E	S	I	A	C
C	L	I	N	K	■	S	N	E	E	R	■	N	B	A
A	M	A	T	■	P	O	U	N	D	■	A	D	O	G
L	E	N	■	G	A	L	A	S	■	A	F	I	R	E
D	R	E	A	R	I	E	R	■	C	A	R	A	T	S
■	■	■	D	A	N	D	Y	■	A	R	I	■	■	■
C	A	R	E	S	S	■	■	F	R	E	C	K	L	E
♜	I	E	S	■	T	A	R	O	T	■	A	N	I	L
E	D	I	T	■	A	W	A	R	E	■	N	O	M	E
D	A	N	E	■	♔	L	E	A	R	■	♕	B	E	E

32 Scrapbook Mixup

1. *The Sunday Guardian* (Trinidad and Tobago). Roti, barra, doubles, black pudding, souse, pelau, and coconut water are "local foods" of the Caribbean.
2. *Metro Manila Times*. Movie listings include both Filipino and English titles.
3. *The Lititz* (Pa.) *Record-Express*. Only a small-town newspaper would list local school menus.
4. *The* (Montreal) *Gazette*. Only the Canadian newspaper would list snow conditions for both Quebec City and New England and use the British spelling of "centre."
5. (London) *Daily Mirror*. The style in which the date is expressed, 28-1-84, would rule out the U.S., and the cool January climate would rule out South Africa, Australia, the Philippines, and Trinidad and Tobago. (Canada is eliminated by #4, and Ireland by #7.)
6. *Los Angeles Herald Examiner*. Radio stations with call letters starting with K are located only in the United States and normally only west of the Mississippi River.
7. *Irish Independent*. The advertised airfares could be offered only from Dublin. The shamrock also suggests Ireland.
8. *The New York Times*. Broadway is in New York City.
9. *The Australian*. Only a country south of the equator would have a "Summer Spectrum" TV series in January. "ABC" stands for Australian Broadcasting Corporation. (South Africa is ruled out in #10.)
10. *The* (Johannesburg) *Star*. Only the South African newspaper would be likely to list exchange rates for Zambia, Malawi, and Zimbabwe, but not South Africa itself.

27 Creature Feature

L	A	D	E	■	K	A	T	E	■	S	E	P	A	L
A	N	O	N	■	E	V	E	N	■	T	R	I	C	E
B	E	E	S	K	N	E	E	S	■	A	L	G	E	R
O	M	E	■	I	N	N	■	L	A	T	E	S	T	■
R	O	Y	■	D	E	G	R	A	D	E	■	K	O	P
E	N	E	S	■	L	E	A	V	E	■	■	I	N	A
R	E	S	I	N	■	■	M	E	L	T	■	N	E	T
■	■	■	B	I	R	D	B	R	A	I	N	■	■	■
D	A	D	■	P	E	E	L	■	■	P	A	P	A	L
A	M	O	■	■	S	C	E	N	T	■	M	U	N	I
B	E	G	■	B	E	R	S	E	R	K	■	G	A	G
■	R	E	F	U	T	E	■	S	U	E	■	N	T	H
L	I	A	R	S	■	P	U	S	S	Y	F	O	O	T
A	G	R	E	E	■	I	N	I	T	■	I	S	L	E
P	O	S	E	S	■	T	I	E	S	■	B	E	E	R

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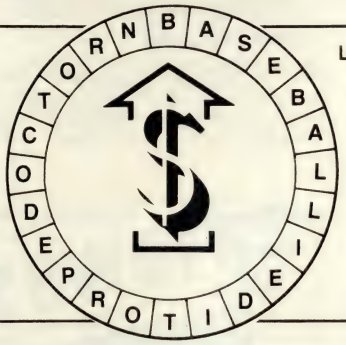
EXAMPLE:



Letter Values Are: M=3, A=1, C=3, E=5
M A C E
3+1+3+5 = 12
A C E
1+3+5 = 9
Total Score 21

RULES FOR ENTERING:

Starting with the letter "B" at the arrow, find as many words of **THREE OR MORE LETTERS** as you can. Always go in a **CLOCKWISE** direction and do not skip over any letters. **LOOK CAREFULLY** — words nestle within other words. Each letter has a numerical value. Add the number for each letter in each word, then add the value for each word to determine the total value of this **"WINNERS CIRCLE." THE HIGHEST TOTAL SCORE WINS.**



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D=4
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L=3
N=4
O=1
P=2
R=3
S=4
T=1

NOTE:

You cannot count the same word twice. You may, however, count each different form of a word. Words used must be in any one of the paperback dictionaries specifically titled **"The Merriam-Webster Dictionary"** (published since 1974).
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ADDRESS _____ **APT. NO.** _____
CITY _____ **STATE** _____ **ZIP** _____

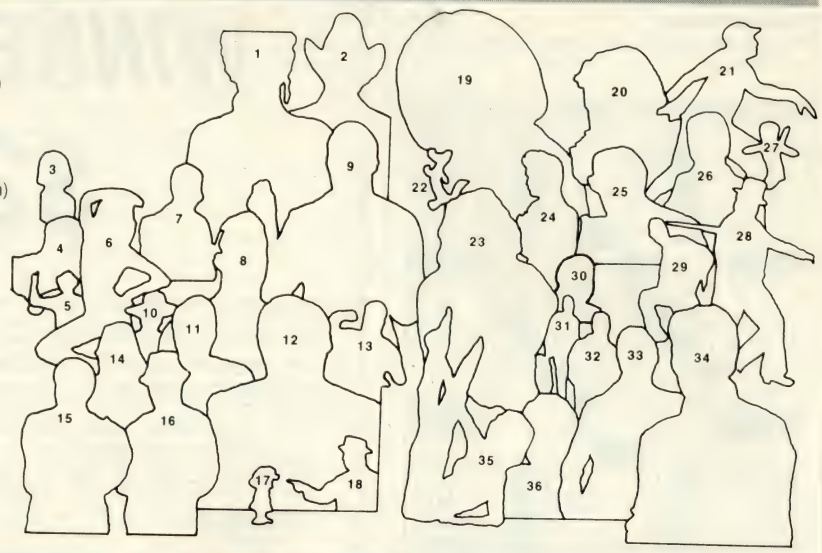
*1ST PRIZE ONLY

©Winners Circle Games, Inc. 1984 **101684**

42 Counterfeit Couples

The celebrities should be matched as follows, using the numbers on the layout at right as a guide:

1-24 Adam and Eve (Adam Ant, Eve Arden)
2-21 Sam and Dave (Sam Shepard, Dave Winfield)
3-20 Woodward and Bernstein (Joanne Woodward, Leonard Bernstein)
4-36 William and Mary (Prince William, Mary Tyler Moore)
5-32 Amos and Andy (Famous Amos, Andy Kaufman)
6-22 Victoria and Albert (Victoria Principal, Albert the Alligator, of *Pogo*)
7-28 Burns and Allen (Edd "Kookie" Byrnes, Peter Allen)
8-30 Jan and Dean (Jan-Michael Vincent, Dean Rusk)
9-29 Harry and Tonto (Harry Belafonte, Tonto of *The Lone Ranger*)
10-27 Nancy and Sluggo (Nancy Reagan, Sluggo of the "Mr. Bill Show" on *Saturday Night Live*)
11-26 Lewis and Clark (Jerry Lewis, Dick Clark)
12-23 Jack and Jill (Jack Benny, Jill Clayburgh)
13-31 Tom and Jerry (Tom Seaver, Jerry Brown)
14-33 Simon and Simon (Carly Simon, Neil Simon)
15-19 Steve and Eydie (Steve Martin, Edie Adams)
16-25 Bob and Ray (Bob Hope, Ray Charles)
17-34 Lucy and Ricky (Lucy of *Peanuts*, Ricky Nelson)
18-35 Dick and Jane (Dick Van Dyke, Jane Fonda)



WILD CARD ANSWERS

Seen Around Town

Their names are used to describe objects unrelated to their chosen fields. A Shirley Temple is a nonalcoholic drink; a John Hancock is a signature; a Mae West is a life jacket; and a Napoleon is a pastry.

State the State

The last two letters of each city or town are also the postal abbreviation of the state that the city is in. Therefore:

1. Aliquippa, PA
2. Kodiak, AK
3. Arcola, LA
4. Harbor, OR
5. Boone, NE
6. Ovid, ID

Vial-able Alternatives

Put one vial of water in Box A, the other 19 vials in Box B. You have a 50 percent chance that the executioner will choose Box A, the one containing no poison vials. If he chooses Box B, you still have nine chances in 19, or a 47% chance, of surviving. Overall, your chance of surviving using this strategy is almost 74 percent.

The Trouble With Harry

1. Orson Welles
2. Paul Newman
3. Michael Caine
4. Clint Eastwood
5. Robert Redford
6. Art Carney
7. Tony Curtis
8. James Whitmore
9. James Caan
10. Harry James

A Fruitful Deal

Mangoes cost 14 rocks, papayas cost 6, and guavas cost 5, for a total of 25 rocks.

Days of Our Lives

Saturday. Mother's Day is Sunday; Thanksgiving is Thursday; Election Day is Tuesday; the first day of Lent is Ash Wednesday; Labor Day is Monday; Thank God It's Friday.

Con Game

concurrent
condensate
conflagrant
conformable
conscription
consideration
consolidate
consummate
contingent
convalescent

Down to the Wire

Playing 12 to 4 leaves 5-2 as Black's only futile cast. 12 to 6, and 4 to 2 is better, but still fails to bear off on a subsequent 5-5. The correct play is 12 to 8, and 6 to 2. Now every roll assures Black of taking off at least one piece.

A Visit to Uncle Byron's

Aunt Hildegarde likes words that begin with prepositions.

Digit Fidget

$101 - 10^2 = 1$

Guess What

1. A fly
2. Top
3. A haircut
4. A match

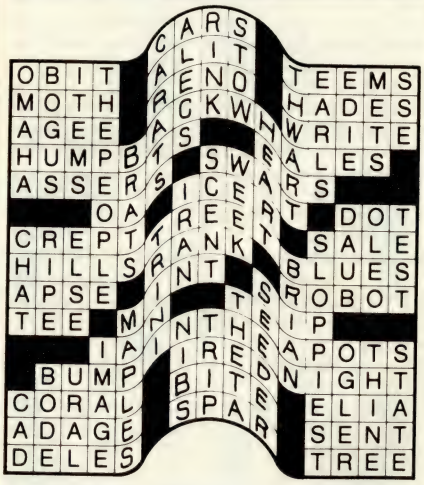
29 Whose Clues

1. Indira Gandhi
2. Babe Ruth
3. Maria Callas
4. Sigmund Freud
5. Bo Derek
6. Arnold (or Sandra) Palmer
7. Joe Namath
8. Charlie Chaplin
9. Jacques Cousteau
10. John Lennon
11. Chiang Kai-shek
12. William Shakespeare
13. Marco Polo
14. Esther Williams

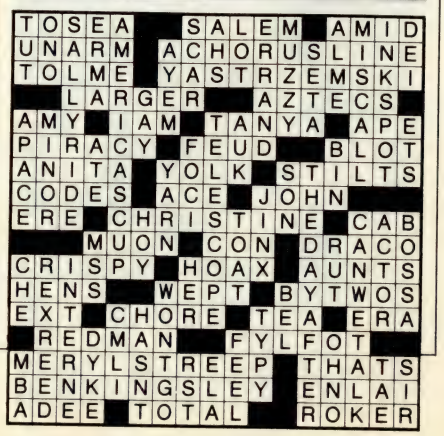
10 Magic

Harriet wins the game.

38 Playing a Hunch



39 1983 in Review



35 Cryptic Crossword

ACROSS

1 Intoxicate (excitation, & lit.)
6 Gala (Galahad – had)
10 Train (art + in)
11 Forestall (store + fall)
12 Supine (Sue + pin)
13 Visitors (it + visors)
15 Auditor (Au + I'd + to + r)
17 Azaleas (plAZA LEASe)
19 Egotism (items go)
21 Evening (even + gin)
23 Crackpot (rack + p + cot)
24 Bridle (bride + l)
27 Maintains (stamina in)
28 Drama (Dr. + A.M.A.)
29 Tuna (a + nut)
30 Degenerate (reneged + ate)

DOWN

1 Intestate (ties a tent)
2 Trapped (tapped + r)
3 Xenon (oxen + N)
4 Cafe (carafe – ra)
5 Terminates (*Main Street*)
7 Abalone (ab + alone)
8 Atlas (a + salt)
9 Estimate (I'm + estate)
14 Trampoline (tramp + O + line)
16 Trinkets (knitters)
18 Segregate (Easter egg)
20 Oration (Ontario)
22 Indiana (in + Diana)
23 Comet (co. + Met)
25 Ridge (ride + g)
26 Isle (leis)

37 Double Cross

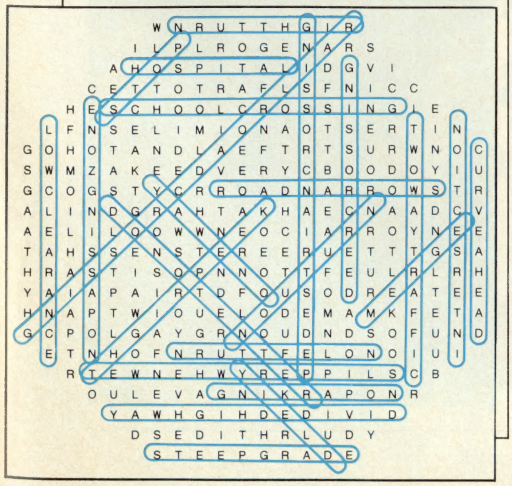
A. KRAKATOA	L. THRESHOLD
B. EIGHTH NOTE	M. OPHTHALMOLOGIST
C. REWIND	N. BALLOONS
D. ROUND ROBIN	O. ENTHYMEME
E. HALFLIFE	P. PLANTATION
F. OUTBREAK	Q. ENSHEATHE
G. WHEREWITHAL	R. RATED
H. IN THE PINK	S. FANTAST
I. GRATITUDE	T. ENTHRALLING
J. ORIGINALITY	U. CHIPPENDALE
K. TWO-WHEELER	V. TOWNS

I will read *anything* rather than work. And I don't mean interesting things like the yellow section of the telephone book. . . . The truth is that, rather than put a word on paper, I will spend a whole half hour reading the label on a milk of magnesia bottle—(Jean) Kerr, *How I Got to Be Perfect*

Fake Ad

The Fake Advertisement announced in the Table of Contents was for Ads Infinitum TV, and appeared on page 13. Illustration by Steve Cieslawski.

26 On The Road Again

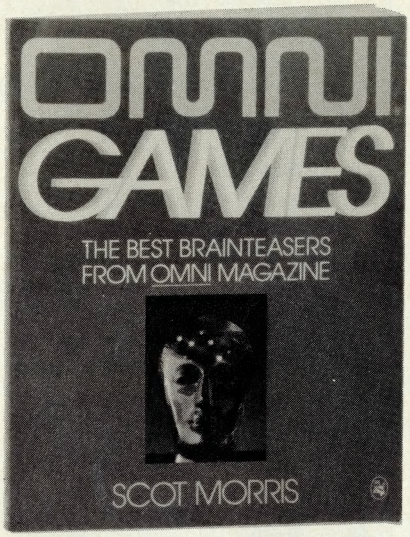


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EXPIRATION DATE _____
SIGNATURE _____
NAME _____
ADDRESS _____
_____ ZIP _____

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Shoe Business Cover

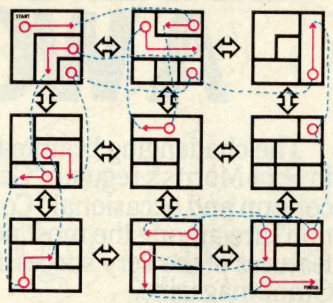
Dividing the cover roughly into left and right halves, the beachgoers were:

Left half, top to bottom
Superman
Mercury (winged shoes flying in background)
The Boston Celtics
Robinson Crusoe and Friday
Charlie Chaplin
Little Orphan Annie and Sandy
Dorothy from *The Wizard of Oz* (ruby slippers)
Betty Grable (high heels, in famous pinup pose)
The Little Dutch Boy (clogs)
Neil Armstrong (first footprint on the moon)
Mickey and Minnie Mouse
Pat Boone (white bucks)
E.T.

Right half, top to bottom
The Little Old Woman Who Lived in a Shoe
Tom Dempsey (former NFL kicker born with half a right foot)
Li'l Abner and Daisy Mae
Olive Oyl
W.C. Fields (spats, with spilled martini)
Member of Kiss rock group
Donald Duck with Huey, Dewey, and Louie
Long John Silver (single boot with peg hole)
C-3PO

47 Lost in the Hypercube

The correct path is shown below.



22 Out of Sorts

The four groups are: (1) pins; (2) horns; (3) bows; and (4) keys, represented respectively on the folders by the bowling pin, shoehorn, bow tie, and piano keys. The complete "files" are:
Pins: clothespin (G), bobby pins (L), rolling pin (M), hatpin (P)
Horns: saddle horn (A), animal horns (E), "horn of plenty" (H), bicycle horn (N)
Bows: ribbon bow (B), archery bow (C), violin bow (J), rainbow (K)
Keys: musical key (D), typewriter keys (F), key chain (I), skate key (O)

28 Dszquphsbnt!

1. CRYPTOON. "What a phony act! I happen to know those cups don't really have the least drop of tea in them!"
2. ENTERTAINING. We served some mixed nuts at our last dinner party. Of course, we fed the other guests, too.
3. WHO MADE THE SALAD? Giant cucumber, weighing over twelve pounds, brought first prize to proud amateur gardener.
4. THAT'LL TEACH 'EM. To discourage friends from giving you surprise parties, try greeting them in your birthday suit.
5. MISMATCH. Infamous Piltdown Man hoax involved juxtaposing modern human skull with ape jaw.
6. OCEAN TAILS. Shy, ugly manatee, often called "sea cow," quite likely spawned mermaid legend popular in seafarer myth.
7. SUMMER FRIVOLITIES. Mild climates afford homeowner luxurious extras like breezy lanai, cozy solarium, open deck with sauna.

31 Logiquiz

1. MIAMI (synonyms)
(M) mournful, morose; (I) innate, inherent; (A) ancient, archaic; (M) mean, malicious; (I) infuriated, irate.
2. TULSA (antonyms)
(T) short, tall; (U) ugly, beautiful; (L) early, late; (S) fast, slow; (A) plain, fancy.
3. OMAHA (rhymes)
(O) cost, tossed; (M) claim, blame; (A) waist, paste; (H) loathe, clothe; (A) bald, called.
4. TUCSON (homophones)
(T) weight, wait; (U) taut, taught; (C) chaste, chased; (S) least, leased; (O) rowed, road; (N) new, gnu.
5. NEWARK (synonyms)
(N) modern, new; (E) naked, nude; (W) shrewd, wily; (A) crazy, insane; (R) afraid, scared; (K) skinny, lank.
6. DALLAS (phrases containing names of metals)
(D) gold digger; (A) brass tacks; (L) platinum blonde; (L) aluminum foil; (A) lead balloon; (S) silver spoon.
7. ATLANTA (Presidents' names)
(A) James Madison; (T) Theodore Roosevelt; (L) Millard Fillmore; (A) Harry Truman; (N) Andrew Jackson; (T) Chester Arthur; (A) Ronald Reagan.
8. TRENTON (phrases starting with ordinal numbers)
(T) *Twelfth Night*; (R) Third World; (E) nineteenth hole; (N) seventh heaven; (T) Fifth Amendment; (O) fourth dimension; (N) second hand.
9. SEATTLE (phrases starting with possessives)
(S) chef's salad; (E) baker's dozen; (A) busman's holiday; (T) teacher's pet; (T) catcher's mitt; (L) plumber's helper; (E) dealer's choice.

16 Eye Spy

A Simple Acrostic
Note that none of the three words in the opening and closing signals is more than three letters long. This had been prearranged to mean that the significant words in the message were longer. Reading only the fourth letter of each four-letter or longer word, you will discover the message DO NOT DELAY SEND PLANES.

Letter Imperfect
Gluing the stamps to a card makes them virtually worthless to a collector (the letter mentions Jamie's album), so the censor suspected that the arrangement of the stamps was significant. Indeed, the three horizontal rows of stamps correspond to the three paragraphs of the letter (not counting the postscript), and the denominations of the stamps refer to the corresponding words in those paragraphs: the 10th, 15th, and 5th words of the first paragraph; the 24th, 10th, and 30th of the second; and the 15th, 20th, and 35th of the third. Thus the message reads CONSTANT AIR ATTACKS WEAKENING SPIRIT CAUSE COLLAPSE VITAL INDUSTRY.

The Crate Escape
The key is the pattern of airholes. The stenciled letters are the same on all crates, but only the one at lower right has airholes cut into the letters that spell out the name Alphonse Ravilan.

Betsy the Bar Belle
The jars on each shelf correspond to letters on the appropriate lines of the blackboard. The nine jars on the top shelf correspond to the nine letters in the words EXTRA FINE at the top of the sign; the six jars on the second shelf correspond to the six letters in PORTER; and so on. Messages are spelled out only by jars containing liquid. The four partly filled jars on the top shelf stand for the letters E, X, T, and N. They are read according to the levels of liquid, starting at the highest level. The first shelf therefore reads NEXT, the second shelf reads REPORT, the third shelf contains the letters WE, and the fourth shelf the letters DS. But there was no NEXT REPORT WEDS or on any other day. Scotland Yard had blown the spy ring.

School's Out
The signal was in International Morse Code. Each child standing alone represented a dot, and two children standing together represented a dash. Spaces between children separated the letters. The message was TWO-THIRTY: – (T); •–– (W); ––– (O); – (T); • • • • (H); • • (I); •–• (R); – (T); –•–– (Y).

A Code in the Nose
The intelligence officer realized that the combinations "see O," "O why," and "O any" suggested the letter combinations CO, OY, and ONE. Looking for other letter homophones (but ignoring the pronouns "I" and "you"), he found them in the words "envy" (NV), "essay" (SA), "Isles" (ILS), "eighty" (AT), and "aim" (AM). Putting them all together in order, he came up with CONVOY SAILS AT ONE A.M., followed by the date July 26, given directly. That was the exact time that a British convoy carrying munitions was due to sail from England. The location to which the letter had been addressed turned out to be a mail drop for a Nazi espionage network in the U.S.

Arrivederci, Roma
The phrase 19 BY 19 BY 2 indicates that the letters of the telegram are to be arranged in a 19 × 19 square (omitting spaces and punctuation), and that the first two vertical columns contain the secret message:

H E L P L E S S W I T H O U T E N G R
A V I N G S T Y L U S E S F O R N A V
Y C O N T R A C T P L E A S E S E N D
A S S O O N A S A B L E F O R T Y S Q
U A R E T I P P E D A N D T E N O V A
L T I P P E D T O O F F I C E I N T R
I E S T E E T C H I N G M A C H I N E
S R E Q U I R E 1 9 B Y 1 9 B Y 2 D Y
E P O I N T S O N L Y W I L L S H I P
O R D E R S O U T W I T H I N F O U R
T E E N D A Y S O F R E C E I P T A D
D I T I O N A L T I M E N E E D E D O
N R E Q U E S T O F P A Y M E N T F R
O M Y O U R S U P P L I E R S A L L D
E B T S W I L L S O O N B E O V E R C
O M E A S N A V Y D E A L S H O U L D
B R I N G I N S U B S T A N T I A L G
A I N S W E A W A I T Y O U R R A P I
D S H I P M E N T O F S T Y L U S E S

The message: HEAVY CASUALTIES REPORTED IN ROME BOMB RAIDS.

COMING DISTRACTIONS

July

Calling All Shutterbugs

After solving the Eyeball Benders on the cover, camera buffs are challenged to photograph their own. Hit us with your best shots in a contest that will remain open all summer.

Plus A behind-the-scenes look at some ingenious photos and how they were created; Call Our Bluff; Company Picnic; Hidden Images; a new twist on Logic; Celebrity Wacky Wordies; Marching Bands; the World's Most Ornery Crossword . . . and more.

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